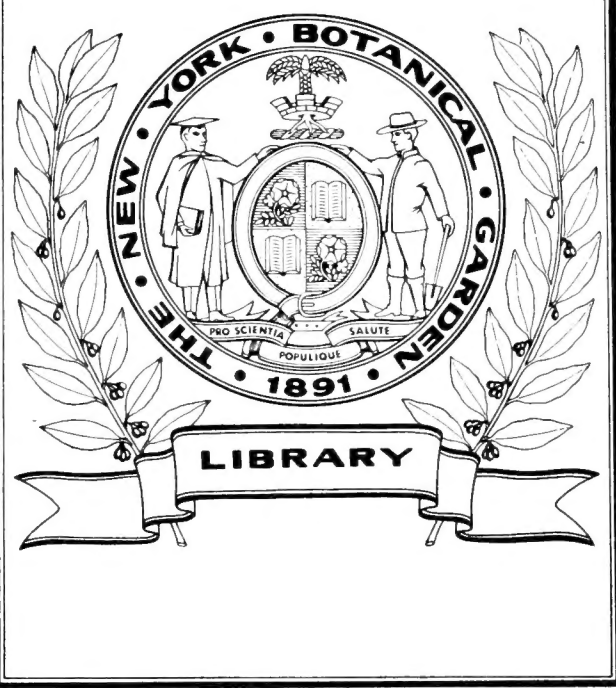
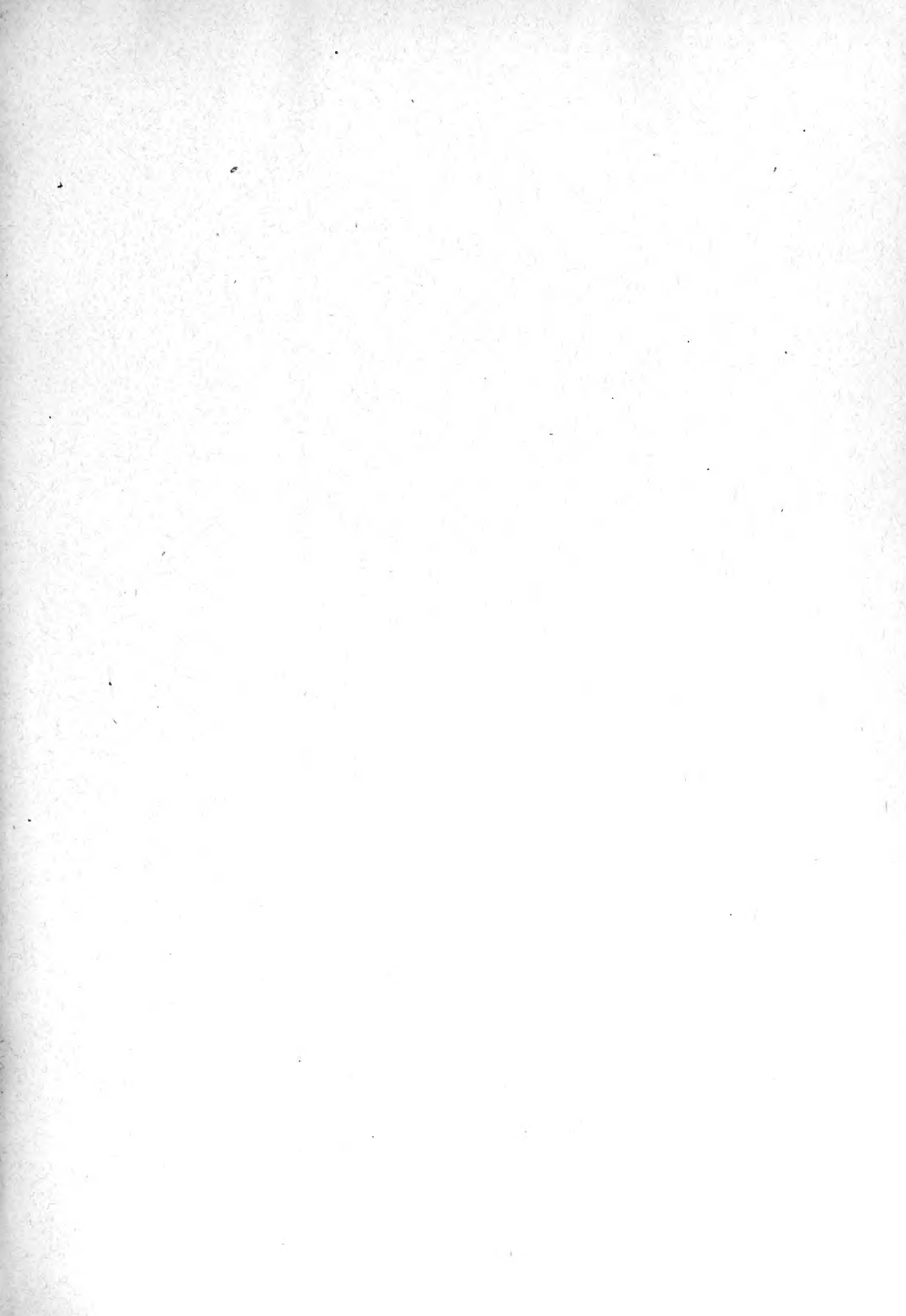


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vol. 5
1907





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THE INDEX WHICH APPEARS ON THESE PAGES HAS A VALUE BEYOND ITS ORDINARY PURPOSE AS A GUIDE TO THE CONTENTS OF VOLUME 5. IT IS, WE THINK, A STRONG PRESENTATION OF THE VALUE WHICH HORTICULTURE IS RETURNING TO ITS SUBSCRIBERS. CONSIDER THAT THE ABOVE LIST OF SUBJECTS COVERS ONLY SIX MONTHS—HALF A YEAR—COSTING THE SUBSCRIBER FIFTY CENTS. CAN YOU DO BETTER THAN TELL YOUR FRIENDS ABOUT IT?

HORTICULTURE

Vol. V.

JANUARY 5, 1907

No. 1



HOUSE OF CHRISTMAS AZALEAS
W. W. Edgar Co., Waverly, Mass.

*Devoted to the
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LANDSCAPE GARDENER
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Astilboidea Floribunda..... 4.00
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Gladstone..... 6.50

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6 to 8 inches..... \$27.00 \$3.00
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Per 100 Lbs., \$7.50.

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Per 100 Bricks, \$14.00.

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12 Stormgade,
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Comet Tomato

Those who force tomatoes should give "Comet" a trial. This variety has been the talk of gardeners around Boston the past season. Those who have seen it growing declare there's nothing to compare with it.

Seed, \$5.00 per oz. Trade packet \$1.00.

WILLIAM SIM, Cliftondale, Mass.



The Cycles of the Amaryllis

A. psittacina (the parrot flower) is one of the most interesting of flowers. The flowers in their three parts open state really look like a parrot. They are of the brightest scarlet and deepest green. It is unique and beautiful; why do we not see it oftener? Brazil, 1677.

A. pulverulenta; flowers four in number, orange red, with rather stiff petals, sharp pointed; scape 2 ft. long, dark purple at the bottom; leaves deep green, densely covered with purple bloom, base of each leaf mottled with purple. Brazil, 1819.

A. reticulatum; one of the oldest and one of the most beautiful flowers, delicate soft pink and white, 3 to 4 inches in diameter, marked with darker color, so as to appear covered with delicate net work; scape 18 to 24 inches high, carrying five or more flowers; leaves, dark green with a pure ivory white midrib. Brazil, 1667. Seems as if this and *A. Leopoldi* would give some magnificent hybrids.

A. solandriflora, most elegant and beautiful in shape; flowers drooping, very large; tube very long, slender, pale green; limbs somewhat spreading; segments oblong, sharply pointed; colors: sulphury cream, tinged with trailing arbutus pink; the backs of the flowers have their own green tinge; three to five flowers on scapes 2 ft. long; leaves rather narrow, strap shaped, keeled at base and blunt at apex, 15 inches long. Guiana, 1839. Beautiful varieties of this are *rubro striata*, flowers marked red and white, and *purpurescens* with distinct rosy purple and white flowers.

A. vittata is a species for which we should be thankful because of the many beautiful varieties that have been raised from it. Flowers of the true species, which we rarely see now, are clear white with two distinct red stripes on each segment, the segments being nearly equal in size. On strong plants the strong 2-ft. scapes carry as many as six flowers; the leaves are rather erect, nicely curved, strong and leathery of a rich deep green. Cape of Good Hope, 1788.

There are several other species that are not as distinct as the above or they differ but slightly. If a complete collection is desired they are necessary, otherwise they may be omitted. Besides these there are some old hybrids some of which are 100 or more years old, which we cannot let pass without notice.

A. Johnsoni. The most widely distributed of all amaryllises. One of the first hybrids between *A. Reginae* and *vittata*. Flowers crimson and white; very free flowering.

A. Ackermanni. Hybrid of *aulica* and *Johnsoni*. Flowers, deepest crimson, of large size and easily managed. The parent of many fine kinds.

John Thorpe

(To be continued.)

British Horticulture

THE WINTER FLOWERING CARNATION SHOW

The newly established Winter Flowering Carnation Society made an excellent start with their first show, which was recently held at the Royal Botanic Gardens in London. The leading trade growers were well represented, the only weak section being that of the amateurs, but it is hoped to remedy this defect another year. Two novelties were certificated. One was *Britannia*, a bright red tint, raised by A. Smith, and recently illustrated in *HORTICULTURE*. This is a vigorous grower, likely to be very popular for market work. The other novelty was *Mrs. H. Burnett*, of a delicate salmon pink tint, raised by H. Burnett. The prize for best white was taken by A. F. Dutton with some splendid specimens of *Improved White Lawson*. The best crimson was President, shown by Messrs. Bell & Sheldon, whilst Haywood Mathias took the premier honor with *Enchantress* in the class for a blush or light pink variety. A very handsome group was staged by Hugh Low & Co., amongst the prominent varieties being *Mikado*, *Oriflamme*, *Rose Enchantress*, *Marmion*, *Mauvina*, the latter being of a bright magenta tint. The leading American varieties were well represented on most of the stands.

MARKET CHRYSANTHEMUMS

The National Chrysanthemum Society held their annual show of market varieties in London on December 12th, when an interesting collection came under the notice of the judges. Novelties were not very numerous for the English market grower pins his faith to the leading standard novelties which are in favor with the public. In the novelty class, the first prize fell to W. Wells & Co. for some excellent specimens of *Snowflake*, a white sport of *Mdme. H. Douilett*. Phillip Ladds & Co. obtained the silver bowl offered to the winner of the greatest number of prizes. In the color classes the prizes were secured by the following: Yellow, *Nagoya*; bronze, *Mdlle. G. Rivoli*; crimson, *Exmouth Crimson*; pink, *Mdlle. Laurence Zede*. Great interest was taken in the competition for the best packed box of chrysanthemums for market. The competitors showed considerable skill. The chief prize winner had boxes of *Winter Cheer* and *Mdme. Theresa Panckoucke*. The whole exhibition was an object lesson of the high cultural skill which has been reached by the leading market growers. The past season, by the way, has been a record one for "mums." The flowers have been more plentiful than profitable.

W. H. Adsett.

New Year Wisdom

Do you wish to extend your business? Undoubtedly. Then, presuming that you have desirable goods to offer, the best way to increase business is to reach out for new customers. *HORTICULTURE* is the best medium in existence for this purpose, because by its different plan of action and tactics it not only interests old patrons in a new way but has developed a new clientage indifferent to hitherto existing mediums. Your advertising in *HORTICULTURE* will catch new eyes and will give you a wider field than ever before. Begin the New Year with wisdom.

HORTICULTURE

VOL. V

JANUARY 5, 1907

NO. 1

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00: To Foreign Countries, 2.00: Single Copies, 05.

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;

six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass. under the Act of Congress of March 3, 1879.

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SUPPLEMENT WITH THIS ISSUE

HORTICULTURE extends to its growing family of readers best wishes for a happy and prosperous New Year and expresses the hope that the serenity and brightness that made January 1, 1907, the most beautiful New Year's Day we have ever experienced be typical of the sunny prosperity to come during the year to every one who reads these lines. We further hope that HORTI-

CULTURE may win a liberal measure of recognition as a contributing factor in whatever good the year holds in store for the craft.

The Toronto carnation meeting

Who will go to Toronto? The carnation meeting is scheduled for January 23 and there is every reason to expect that, in all respects, the Toronto affair will equal in interest and profit the very best of its predecessors. Reduced railroad transportation has been accorded to those attending and liberal concessions have been made for exhibitors taking material across the border. Let every craftsman "this side of the line" who can possibly do so get ready to pack up and join in this visit to the land of snow and help to show by their numbers and enthusiasm that in horticulture, at least, there is no such thing as a "dividing line." We know that a big-hearted welcome awaits the visitors. Who can afford to stay away?

Training young gardeners for landscape work

The landscape garden study class of the Gardeners' and Florists' Club of Boston has proven a very popular move, particularly with the younger gardeners, who have taken to the lessons with commendable avidity. The fundamentals of geometry are the topics now under consideration. A talk by Prof. Chas. S. Sargent is on the program for some evening in the near future. The class comprises sixty students and meets twice a week. That some of these young men will yet make their mark in landscape work is a reasonable proposition for some of them are already well advanced in plant knowledge, a fundamental training in which is the best foundation for the successful landscape artist.

A British welcome to the American carnation

We like to read of the enthusiasm spreading all through Great Britain over the so-called "winter-flowering carnation." The wave of popularity accorded this, our own type of the "Divine Flower" over there, is all the more gratifying because of the prejudice which its introduction developed—an opposition so strong that it was refused admission to the schedules of the Carnation Society and the only alternative left for its indomitable friends was to organize a special society devoted to its interests. The welcome extended by our English friends to innovations from Yankee-land is not usually remarkable for eager ardor and the promoters of the new society have every reason to be proud of their signal success. It is stated that their first exhibition which took place recently was so well received that it is proposed to hold another in March, and so appreciative are the flower fanciers of the opportunity to have such attractive blooms in the dull winter days that the amateur growers actually begrudge sending their flowers to the exhibition.

ROSE HOUSE WISDOM.

Christmas has again gone. Many lessons have been learned, and many more might have been. The rose "salter" was again in evidence, but in limited number, as business in that line has not for some years been very remunerative, neither was it any better this year, as some of them had their bewhiskered roses left on their hands and were compelled to unload at a loss. In my previous notes I said it was a bad thing for the wholesaler to have a quantity of aged stuff suddenly dumped in for him to try to sell. It is a pernicious habit and usually disastrous but this doesn't prevent its being tried again another year. The man who does this is a disgrace to the specialty he represents, and I think it makes him a criminal in the eyes of his fellows. No wonder some of the public have an aversion to roses; they find roses do not keep, and the result is they buy some other flowers. This is a direct loss to the rosegrower. Some years ago the editor of a magazine advised his readers to spend their money in candy or any other thing except flowers at Christmas. Probably he had good reason for those remarks.

Another thing the wholesaler has to contend with is the propensity of some dealers at holiday time to solicit stock direct from growers, offering to pay a higher rate or throwing out the bait that he (the grower) will save commission thereby. I always have turned such offers down with a flat refusal and advised the applicant to go to the wholesale dealer. It is rather amusing to hear some growers rail at the wholesaler when trade is good and then when there is a glut to see the change in mein. The golden rule is a good thing to keep in memory at all times. The world would be better for it, the greed of some would be lessened and a better spirit would prevail.

Another year has come to a close, and we look forward just as eagerly to the New Year as we have done to those in the past. Death has removed many from our profession but their places have been again filled, showing that the world moves along and that our leaving it cannot stop its progress. Many obstacles have been thrown in our way in the past, and the future perhaps holds just as hard or harder than those we have conquered, but Hope, that great solace of mankind, leads us on unmindful of the trials which we have passed through. Much progress has been made in our calling. Here in Boston we note the culmination of many years persistent upward work from a small beginning, in the new headquarters of Welch Bros. These gentlemen have shown wisdom and courage, and have fairly won their exalted place in the flower trade.

I was much interested in what Mr. Asmus wrote in your issue of December 8th, on the "sportsman spirit" at the exhibition. The writer is on a pretty good track. I may later touch on that subject, as I have done before. There are various phases of sports, sporting and sportsmen. I attended

the Boston Club sports last summer, and enjoyed every minute of it. Some of us Scotchmen entered the races but it was mostly Englishmen who won. History again repeated itself, for the English always beat the Scotch at running. And some disgruntled Scotchmen stayed at home that day for reasons unknown to themselves. "Unsportsmanlike," just the same as we see at the flower shows amongst all races of people.

I am sure HORTICULTURE joins me in wishing the readers A Happy New Year.
R. T. MCGORUM.

WHOLESOME CHESTNUTS.

"A guid new year tae ane an' a' and mony may ye see." Look back to the year that has passed, not with regret even though failures were many and successes few, but rather to acquire from recollections of those same failures inspiration for renewed endeavor for many future successes and few failures.

Be not envious of what you may call the luck of your neighbor because if conditions within you and surrounding you had been of as hospitable a nature as those within and surrounding him luck would have given you an equal share of its companionship. Every man of our craft as well as of every other craft can if he examines himself critically find some void or incapacity entirely responsible for what fate or ill fortune or luck or all three are blamed for. It matters not whether successful or unsuccessful, be up and doing, bright and early in the new year and "work while it is yet day, for night cometh when no man can work." Inactivity hastens the approach of night and when it comes to those who labored not by the light of the day, they are usually groping around in the darkness of their night in a vain endeavor to capture lost opportunities.

If you are an employee keep in mind every day of the year that it depends greatly upon yourself whether or not your situation is pleasant. If some

little thing occurs to ruffle your temper think of something that will smooth it instead of resolving rashly to make a change remembering that "a rolling stone gathers no moss" and that it may be better "to put up with the evils we have than flee to others we know not of." Although this age is one of intense realism, still long and faithful service and duty well done seldom go unrewarded.

There are many gardeners and florists who many a time, when it was too late, have regretted that they had not sown some seed of this or struck some cuttings of that. Now it is always well to think of these things early in the year, and, after thinking, to act. It is much better to be a little ahead of time than hopelessly behind. Then, granting that, consider not only what you managed to pull through with last year but try to think up something that will be likely to be still more profitable or pleasure giving. However small a place a man may have he should make it a point to appropriate a favorable location for starting seeds early in the year.

There is no better time in the whole year for the propagation of a great number of indispensable plants than now when, without sacrifice or inconvenience, the necessary conditions exist.

Don't rush hard-wooded plants at once into heat; better bring them along gradually and without undue excitement.

If you have pansies crowding each other it will pay to thin them out and put those lifted into flats in good soil.

Give everything in frames out-doors as much light as possible and admit air when the weather is at all favorable.

Don't leave geraniums any longer in the cutting bench and if those in small pots are well rooted shift them. Pinch all the lanky ones; you may get some cuttings when pinching them, if you are in need of more stock; put them somewhere to root; they will make nice little plants by spring.



ENTRANCE TO AZALEA HOUSE
See Frontispiece.

THE NEW S. A. F. DIRECTORS



J. K. M. L. FARQUHAR

President Wm. J. Stewart of the Society of American Florists and Ornamental Horticulturists has appointed as directors for the regular three-year term, to succeed Messrs. Theo. Wirth and H. H. Ritter, Messrs. J. K. M. L. Farquhar of Boston, Mass., and Samuel Murray of Kansas City, Mo.

John K. M. L. Farquhar was born at Fyvie, Scotland, on July 22, 1858. His first entry into horticulture was as clerk and records keeper of the Royal Horticultural Society's experimental gardens at Chiswick, under the late A. F. Barron. Thence he went to the seed establishment of Benj. Reid in Aberdeen, Scotland. Coming to the United States he spent two years associated with his brother John at Forest Hills Cemetery, Boston, after which he was employed by the late John C. Whitin to lay out a new cemetery of 100 acres given by that gentleman to the town of Whitinsville, Mass. At the completion of this work in 1884 he started in the seed business as partner in the firm of R. & J. Farquhar & Co., which quickly developed a very prosperous business and in connection with their extensive ornamental nurseries has attained a position of eminence among the horticultural houses of America. Mr. Farquhar has held for many years an influential place in the councils of the Massachusetts Horticultural Society and at present is general superintendent of the exhibitions of that society. He has always been an advocate of the natural style of gardening for America as opposed to the Italian or architectural, and it was through his initiatory efforts that the landscape gardening classes of the Gardeners' and Florists' Club of Boston were formed. He has travelled extensively and his

observations in Japan, West Indies and elsewhere as presented in illustrated lectures have contributed much to the popular knowledge of the flora of those lands. He was, we believe, the first to suggest the deep planting of Japanese lilies. Mr. Farquhar is a man of tireless industry and a tower of strength for the S. A. F., in New England especially.

Samuel Murray was born in Brooklyn, N. Y., January 18, 1860. When two years old he was taken to Scotland where he spent his youth, returning to New York when twenty years of age and entering the employ of Peter Henderson and also held a position as private gardener, after which he went to Kansas City, Mo., where in 1889 he was one of the incorporators of the Probst Bros. Floral



THEODORE WIRTH.

Co., a concern which he managed until the ruin of their establishment by the great hail storm of 1898, since which time Mr. Murray has been very prosperous in business for himself with a store and conservatory in the business centre of the city and greenhouses farther out. As a grower Mr. Murray has won an enviable distinction. No finer specimens of Lorraine begonias have ever been shown than those exhibited by him and he is equally expert in the culture of other florists' specialties. Personally, he is one of the best liked men in the trade.

Theodore Wirth having been reappointed on the board by ex-president W. F. Kasting, to complete the unexpired term of P. J. Hanswirth who was elected to the secretaryship continues in office for two years more. Mr. Wirth is the recipient of a rare distinction in being thus appointed to serve for a second term on the board of directors of the S. A. F. Those who know Mr. Wirth, however, realize that the honor is mutual and that the national society is indeed fortunate in

having a man so thoroughly useful and energetic, willing to give his time and effort in her service.

S. A. F. LADIES' AUXILIARY.

We are requested to announce that the ladies' S. A. F. pins have been received and will be forwarded to all members as soon as the secretary, Mrs. Chas. H. Maynard, returns from North Carolina, where she has been called on account of sickness.

FLORISTS' CLUB OF PHILADELPHIA.

The Florists' Club of Philadelphia held its monthly meeting on New Year's day, afternoon and evening. Creature comforts, speeches, essays, committee reports and other interesting affairs filled up the time. There was a big attendance and a lively and fruitful meeting in all departments, the results of which will appear later. S. S. Skidelsky's discussion of "Our Credit System: Its Uses and Abuses," showed a mastery of the subject attainable only by long experience and study. It met with the general approval of the audience.

CONNECTICUT HORTICULTURAL SOCIETY.

The annual meeting of this society was held in County Building, Hartford, on Friday, Dec. 28, at 8 p. m., President Sternberg in the chair. The treasurer and secretary submitted their annual reports which showed the affairs of the society to be in a flourishing condition. Officers were elected for 1907 as follows:

President, A. C. Sternberg; vice president, J. F. Huss; treasurer, W. W. Hunt; secretary, Alex. Cumming; statistician, G. A. Parker; pomologist, C. H. Sierman.

The next meeting will be held Jan. 11, when an exhibit of carnations will be made. Visitor, J. T. Withers, Jersey City, N. J. ALEX. CUMMING.



SAMUEL MURRAY.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The regular monthly meeting of this society was held on the afternoon of December 12, closing the second year of this society's existence. The roll of active members now musters 76. Starting with a chartered membership of fourteen, this society has steadily progressed both in the keen interest manifested by its members and in its financial strength. As an organization it has brought together the gardening fraternity of quite an extended area, having always the elevation of the profession as its chief aim.

In the point competition H. F. Meyer scored 83 1-3 with poinsettias, tomatoes and cucumbers; S. J. Trepass, 80 points with tomatoes and cauliflower. The prize for 25 carnations arranged for effect was awarded H. F. Meyer. For the best flowering plant A. Mackenzie was first, with a beautifully grown specimen of *Begonia Gloire de Lorraine*, in a 4 in. pot; S. J. Trepass, second, with a well-grown cyclamen.

The annual dinner of the society was voted to be held on Wednesday, Jan. 23. The treasurer's report showed a substantial balance in the treasury after meeting all expenses.

The following officers were elected for the ensuing year: President, Alexander Mackenzie; vice-president, H. F. Meyer; secretary, John F. Johnston; treasurer, E. J. Brown; corresponding secretary, J. W. Everett.

On behalf of the members of the society and in a brief and appropriate speech J. W. Everett presented the retiring president, Thos. Harrison, with a handsome gold scarf pin as an expression of the society's appreciation for the valuable services rendered by him during his two years of office. Pres. Harrison suitably replied, thanking the members for their support.

CLUB AND SOCIETY NOTES.

J. K. M. L. Farquhar will deliver an illustrated lecture on Gardening in Italy at Horticultural Hall, Boston, on February 23.

The Morris County Gardeners' and Florists' Society will hold their eleventh annual smoker at Madison, N. J., on January 9th, at 8 o'clock P. M.

The Tri-City Florists' Club met at the greenhouse of Harry Bills, Davenport, Ia., on December 13, and discussed the advisability of organizing a horticultural society, which should be open to laymen or non-professionals, and the idea was regarded favorably. The program committee reported the topics to be taken up during 1907.

PUBLICATIONS RECEIVED.

Bulletin of the New York Botanical Garden, Vol. 5, No. 16, has been issued. It is a descriptive guide to the grounds, buildings and collections, including a map and a number of excellent half-tones of the conservatories, plantations, and museum buildings.

In ordering goods please add "I saw it in HORTICULTURE."

SEED TRADE.

One effect of the lithographers' strike is a great reduction in the annual crop of calendars. It is said that the great insurance companies will not issue any this year, or if so, they will be modest "stock" affairs, and not the elaborate special designs heretofore sent out by the leading companies. A number of seedsmen are in the same canoe as the insurance companies, and among these may be mentioned the Jerome B. Rice Seed Co. This firm has for several years issued a large and handsome calendar, which has always been in great demand, but they are left at the post this year. However they announce that they will send out a calendar, but it will not be the handsome special design they had contemplated.

Are the California seed growers conducting a gum shoe canvass of the seed trade this year? At any rate it is certain that the brass-band accompaniment so identified with the visits of some of them in the past, is conspicuously lacking this time. Mr. Rentzahn has made a hurried and quiet visit to a few of his principal customers and returned home, but his name has not been mentioned in connection with the rumored combine. Whether there is any foundation for this rumor cannot be stated with certainty now, but like Banquo's ghost, it will not down, and the further report that all, or nearly all of the raw material had been cornered by the combine, makes it a topic of interesting discussion to the trade generally.

The results of the early canvass among market gardeners confirms the prediction made in these columns some months ago, that the demand for beans would be light. Following a succession of short crops, the bean crop this year has been a bumper one, and market gardeners as well as seedsmen and growers are "loaded." Probably there are enough beans to meet the requirements of the trade next year, if not a bushel of new stock is grown, with the exception of the Limas and a few specialties which are never produced but in limited quantities. In view of these facts it is scarcely necessary to say that beans are having a sinking spell, and the bottom has not yet been reached. However, conditions are not so bad as they were a few years ago and if handled wisely and conservatively by the growers, need not reach the state of demoralization which marked the situation at that time.

While new beans, and particularly colored ones, may look better than those carried one year, yet if carefully kept from the attacks of the weevil, and from the light, they will not deteriorate sufficiently to be noticeable in germination, and though faded, will not be a bad sample. Now if growers will resist the demand for new beans, and plant only enough to cover actual contracts, the situation can be pretty well cleaned up by another year. As this is quite as important to the seed merchant as to the growers, the hearty co-operation of the former should be assured.

While admitting the justice of these suggestions many will want to be the exception. "Give us new stock, and let the other fellow have the old". If

the grower says he can't do this, then he is informed that his competitors are willing to accept the conditions, and here is where the conservative grower is likely to fall—he does not want to lose business, and is quite apt to surrender; yet if he would but stand firm for one year, he would win over his weak-kneed competitors. "Here's stiffness to his backbone."

Christmas Day brought to the view of the E. J. Bowen Seed Company of San Francisco, an unhappy state of affairs. Their confidential man and head bookkeeper of long standing, Frederick Cleaves, was away from the San Francisco office on leave, ostensibly to pass Christmas with friends in another part of the state. The spirit moved the management to peer into the accounts kept by the confidential man, the findings being forgeries to the detriment of the company amounting to between \$6000 and \$7000.

CATALOGUES RECEIVED.

California Nursery Co., Niles, Cal. Catalogue of fruit and ornamental trees, palms, roses, etc.

Iowa Seed Co., Des Moines, Ia. 37th annual catalogue of flowers and vegetables seeds. Two colored plates.

W. E. Marshall Co., New York City. Spring catalogue of bulbs, plants and garden requisites for 1907. Includes a good list of novelties.

W. W. Rawson & Co., Boston. Wholesale price list of florists' seeds, bulbs and plants; also special price list for market gardeners.

Farquhar's Garden Annual; R. & J. Farquhar & Co., Boston. Full of illustrations of the finest developments in fancy flower and vegetable seeds. Colored plates of *Incarvillea Delavayi* and foxgloves adorn the cover pages.

TO ABOLISH "GRAFT."

On August 4 last, the British Parliament enacted a stringent law for the punishment of corrupt transactions with agents. The new law, entitled Prevention of Corruption Act, which went into operation on January 1, 1907, is expected to eliminate or materially reduce this form of "graft" in trade. Briefly, the act provides that any person who corruptly offers to an agent, or any agent who corruptly accepts, a secret commission shall be guilty of a misdemeanor and liable on conviction to imprisonment for a term not exceeding two years, or to a fine not exceeding £500 (\$2,433.25), or to both fine and imprisonment. We learn from the Horticultural Trade Journal that a representative meeting of Scottish nursery and seedsmen was held in the Royal British Hotel, Edinburgh, on Dec. 12, with between forty and fifty present, representing thirty-seven Scotch firms. A full and friendly discussion took place and the meeting unanimously decided to adopt a resolution on the same lines as that adopted at a recent trade meeting in London, to carry out the new law in its entirety as applicable to gardeners' gratuities, commissions, etc. An agreement was signed on behalf of nearly all the firms represented, binding themselves to carry out the resolution.

WILD SMILAX,

\$2.50 per case, 16 cubic feet. Sheet Moss, \$2.00 per sack. Grey Moss, \$2.00 per sack. Galax, \$1.00 per 1000.

SPEED A SPECIALTY.

WRITE FOR CATALOGUE.

CALDWELL THE WOODSMAN DECORATING CO., - Evergreen, Alabama.

Obituary.

Wm. Charlton.

Wm. Charlton a widely known florist of Madison, N. J., died on December 27th. He was a native of Yorkshire, England. He came to this country about eighteen years ago and after holding a couple of private places, settled in Madison where he conducted a wholesale and retail florist business until his death. He received thorough training in the old country where he held important positions. He was a man of wide and varied knowledge, honest and upright in his business and private life. He leaves a widow and one daughter, to mourn a good husband and an indulgent father. Up to the time of his death he was treasurer of the Morris County Gardeners' and Florists' society, which position he held from the time of its organization. Many loving floral tributes were given including a huge wreath of pinks, roses and lily of the valley by the society. He was 73 years old.

John T. Doyle.

A sad Christmas eve event cast its gloom over Menlo Park, California. It was the death of a most estimable man, John T. Doyle, a noted horticulturist whose demise at his home in Menlo Park was caused by pneumonia after a two week's illness. He was born in New York city in 1819 and came to California in the winter of 1852 and soon commenced his life long career as a fruit grower and served three terms as Viticultural Commissioner for the State at large. He was a trustee of Menlo Park and became president of the board. A widow and family of grown sons and daughters, and the numerous members of the trade in and roundabout Menlo Park, and in fact all the inhabitants thereabout are in deep mourning.

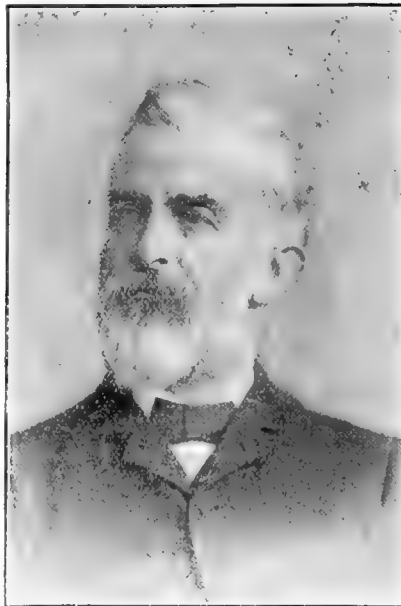
Mrs. Wm. L. Morris.

We regret to announce the death of the wife of Wm. L. Morris of Des Moines, Ia., as the result of an operation after a very short illness. Until a year ago Mr. Morris had been for many years one of the most prominent florists of the city. The Des Moines Florists' Club authorized Mr. Stevens of the Iowa Floral Company to send a floral offering. Mr. Morris has the sympathy of the entire floral craft of Des Moines.

Elijah W. Wood.

Elijah W. Wood, for many years widely known and influential among the fruit growing fraternity of New England, died at his home in West Newton, Mass., on the morning of December 31, 1906, aged eighty years. The cause of death was a stomach trouble of long standing. Mr. Wood,

since his retirement from business in 1873, has given most of his time to horticultural work in connection with the Massachusetts State Board of Agriculture, and the Massachusetts Horticultural Society, also serving for three years in the State legislature and holding many positions of honor in his city. From 1887 till 1900 he was a member of the Board of Agriculture and was chairman of the Gypsy Moth Commission while it existed. Mr. Wood fought a valiant fight against the discontinuance of the campaign against the moth pest, and events afterwards showed that he was indisputably right. He was one of the best informed men in the State on apples and pears, and served for 24 years as chairman of the fruit committee of the



THE LATE ELIJAH W. WOOD.

Massachusetts Horticultural Society. He was also a trustee of the Massachusetts Agricultural College from 1887 until 1905, when he resigned because of failing health. Mr. Wood was a native of Upton, Mass. He is survived by one daughter and three sons. Mrs. Wood died last February, and since that time his health has failed fast.

Harry Graves.

Harry Graves, for many years in business with his father and brother in Montreal, died recently. He had been ailing some time but his death came unexpectedly. He was unmarried and was the salesman of the old firm.

Mrs. Robert Scott.

Catherine Buchanan Scott, widow of the late Robert Scott and mother of

Alexander B. Scott, the well-known rose grower, died December 30th at Lincoln University, Pennsylvania, in her 85th year. Interment took place Wednesday in the family lot, Woodlands, Philadelphia. Mrs. Scott was well known and greatly respected by the older generation of florists in Philadelphia.

Harry Brown.

Harry Brown, of the "Annex" house of Montreal, has gone to his long rest after suffering intensely for the last six months. Everyone knew Brown, and the sympathy of the trade is extended to his widow and family.

NEWS NOTES.

John Dugan has disposed of his nursery at Papillion, Neb., and will move to Denver, Colo., for the benefit of his wife's health.

George M. Kellogg of Kansas City, Mo., writes that the Christmas trade there has been enormous, larger by far than ever before.

The Philadelphia Record is authority for a report that the Felsbergh Rose Company will build 25 acres of greenhouses at Ambler, Pa.

Mr. Robt. Flowerday, of Detroit, Mich., mourns the loss of his 15-year-old daughter, who died after a long illness on the eve of December 25.

W. F. Kasting of Buffalo is sending out as a Christmas greeting to those who are his customers and those who ought to be, a nice office thermometer.

An overheated furnace in the greenhouse of Peter Heyler of Allegheny, Pa., started a blaze on Christmas day, but it was under control before serious damage was done.

The Detroit Florist Club showed its brotherly sympathy to Rob. Flowerday by sending a beautiful floral piece and being almost unanimously present at the funeral services over his daughter.

Elihu Snyder of East Lenox, Pa., is reported to be looking for a suitable location for a nursery in Delaware County and to be making arrangements for better railroad connections with his East Lenox place.

Evenden Bros. of Williamsport, Pa., lost about \$6,000 through a fire on December 24. The boiler house was destroyed, but fortunately the Christmas stock had been transferred to the upper greenhouses. As soon as it was possible to begin, the work of installing a new heating plant was under way.

Reports from Cleveland, Ohio, are to the effect that the Christmas flower trade was satisfactory generally and exceeded last year by a big per cent. Prices at retail were higher than usual at Christmas and wholesale rates were stiff because of a general scarcity of desirable material. Many orders for New Year's are already on the books.

THIS WIDE HOUSE QUESTION

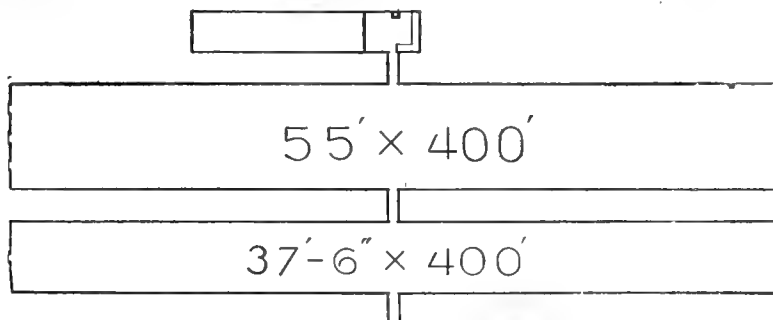


How is a man to know things in this world—absolutely know before he invests several thousands in an idea that may be still in its experimental stages? The grower must be sort of gambler—willing to take a long chance

ridge. (See cut of section). This gives us a big volume of air aloft, which when once heated is a protection against sudden changes and preserves a more uniform temperature and humidity."

working a large house, as the sash can be opened and shut in about half the time it takes to run up and down three small houses covering same space."

In reply to other queries Mr. Coddington stated that the house runs east and west at a perfect level, but with an inside rise of 2 1-2 feet from south to north—the first bench only 16 inches in height—each following bench 2 inches higher, making the back one 32 inches; taking this in connection with the 2 1-2 feet floor rise, each bench is about 5 inches higher than its southerly neighbor so that in the shortest day one can stoop down to the edge of the bench on the farthest walk and always see the sun. "There are nine benches, each 3 ft. 11 in. wide, with ten 22 inch walks. Four plants to a bench are all that can be worked to advantage and I believe thoroughly in the side walk; you make up in quality what you possibly lose in quantity—and quality is what we are striving for. The heating is by steam—the gravity system. The houses are connected

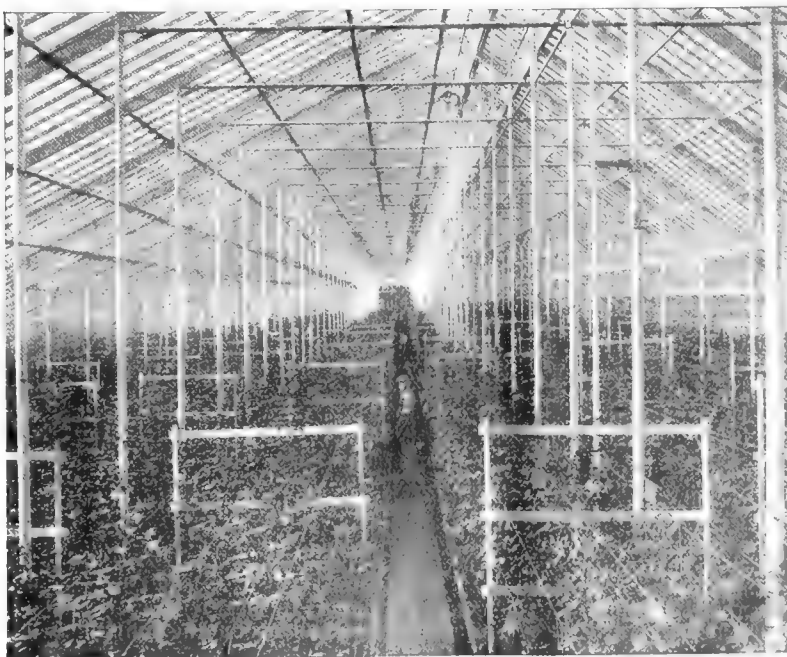


and put a theory into practice to uphold his personal views.

The writer recently visited L. B. Coddington's range at Murray Hill, N. J., where along with five three-quarter span cypress houses, each 350 feet by 18 1-2 feet, he has two 400-footers, iron frame, one 37 1-2 feet wide, and his last one 55 feet. Having tried the narrow, the wider and the widest and having tried erecting his own houses and having it done by the builder, Mr. Coddington stood in a position to make comparisons. He has many years experience in the rose business and in addition to this range at Murray Hill, owns another at New Providence, N. J., of 62,000 sq. ft. glass area. What he and his wide-awake foreman had to say about this last house, which was erected by Hitchings & Company, will undoubtedly interest the reader. I said to him: In general terms, how do you like your big house?

"As to ventilation, the fresh air is more evenly distributed, and when it had reached the plants, is thoroughly warmed up and acts as an insulation against chills. There are fifty-foot runs of sash operated by easy running gears which are a distinct economy in

"I like it in every way; I find that such a construction gives us all possible light, that the eave line with its metal plate and glazing bar bracket make an indestructible joint of great strength and give a freedom from ice; that because of the rigid framing and the provisions for expansion and contraction, the glass breakage is practically nothing. I am thoroughly convinced that 400 feet is about the right length for economy in working and freedom from the complicated heating problems of the extremely long houses. The sides are 6 feet, with a 22 foot



IMPERIAL and PINK IMPERIAL CARNATIONS

You Cannot Afford to be Without these Two Excellent Varieties

Price \$12.00 per 100 ; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order

A. J. CUTTMAN,

The Wholesale Florist of New York
43 WEST 28TH STREET

JOHN E. HAINES,

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ANNOUNCEMENT

We have opened a **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition to our regular wholesale **EVERGREENS** and **FLORISTS' SUPPLIES**

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. **Boston, Mass.**
and 9 Chapman Place,

See our Greens Advertisement on page 705.

L. D. Telephone, Main 2618.

with center passages and the 8-inch mains and 5-inch returns are in trenches right through them. There are two 1 1-4 inch pipes under each bench, two flows under one bench, two returns under next lower, and four 1 1-4 inch pipes hanging on each side of the house."

"I find the large house is cheaper to heat; we haven't figured it out on a percentage basis, but here is a comparison: When there are two pipes on the 18 1-2 foot house, then there should be four on the 37 1-2 foot house and six on the 55 foot, but we need to only run three on the 37 1-2 foot and four on this. That big volume of air, as I said before, when once heated up is easy to keep up.

"Now you must see the work room. It is as near fire-proof as possible. The siding is plaster board with a pebble-dash finish on the outside and the floor is made with iron beams and brick arches between, the whole cemented over. Another time we would make a solid concrete floor and no bricks. In the boiler cellar those concrete walls were built right in the trenches without any framing, and then the cellar dirt dug out. An experiment, but it worked and saved all that expense of framing a mould.

"Yes, we are every way satisfied with the construction of that big Hitchings house, and put me down as a firm believer in wide iron-frame construction."

A PROMISING CHRYSANTHEMUM SPORT.

Phillip Kirchner who is in charge of the Chicago Conservatories of E. M. Barton, 4629 Greenwood Ave., Chicago, has a beautiful pure white sport of Pink Enguehardt chrysanthemum which originated on his place the past season. It has been given the name of Mrs. Enos M. Barton and Mr. Kirchner thinks so well of this new variety that he will propagate all possible for next season. The stock, however, is limited. Several chrysanthemum growers who have seen the same predict that it will prove to be one of the best varieties produced in years.

CALIFORNIA NOTES.

Growers of flowers, and plants that bloom in the Yuletide season, have just had a Christmas inning that beats the record. The great holiday of the year was wet and windy, but the people refused to remain indoors, and there were enough of these shoppers who neglected purchases Christmas eve to keep the flower stores thronged December 25. Thirty-six of the seventy-five florists San Francisco had before the earthquake is all the city now has, and these that have re-established themselves are well pleased with the way business has come their way, and this Christmas business, a veteran plant and flower trader told the writer, "was the best we ever had."

It has been three days since Santa Claus was here with his hoisted umbrella, but now the fine, warm weather is superb, and as warm sunshine after rain always causes the grass and other forms of vegetation to grow, and dormant seeds to sprout, it goes without saying that California growers, and horticulturists generally, are in a contented frame of mind.

On the opening day of the New Year S. P. Hosp, a noted landscape gardener, will go to Pomona, Cal., to supervise the planting of eucalyptus trees in the parks of that city and map out decorative designing for each of the several parks. Last fall Pomona purchased 4000 red and sugar gums, and these will be planted by landscape gardener Hosp.

On Christmas eve, while the proprietor of the Dwight Way Nursery Company and his wife were stuffing good things in the children's stockings, they were startled by the cry of "Fire!" It was their property that was burning—the engine room of the nursery, corner of Grant and Derby streets, in West Berkeley, across the bay, the loss being fully \$500. The Berkeley fire department responded promptly and confined the fire to the engine room. Oil is burned under the boiler to heat the greenhouses, and fire caught on the building when no attendant was present.

PHILADELPHIA NOTES.

Paul Huebner is of opinion that the best cannas are not always the newest ones. His motto is: test all but hold fast to that which is good. And send out no nubbins and side eyes for roots.

Robert Schuck, late of Kohler's, started in at McKissick's Monday morning. There were many greetings from old friends during the days following and much good business.

George D. Clark of Dreer's is an enthusiast in natural sequence in catalog making. Instead of massing novelties in all departments he believes the most effective way is to bring the novelties and standards of each department one after the other. This helps in both the making out and filling of orders. Dreer's 224 page book is an ideal in every way this year.

ASPARAGUS PLUMOSUS NANUS

Greenhouse Grown, 100 seeds 60c, \$2.75 for 500 seeds, 1000 seeds \$5.00, \$23.75 for 5000 seeds.

Please do not compare this with the price of cheap, out door grown seed, which is inferior and offered at tempting figures.

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(Mammoth Fancy Strain)

In separate colors, Blue, Pink, Scarlet, Striped, and White, 30c per Trade Pkt., oz. \$1.50
Mammoth Fancy Mixed, of all colors, 30c per Trade Pkt., oz. \$1.50.

VINCA

Carefully selected from choice plants

	Trade Pkt. Oz.
Alba, White with rose centre	20c 60c
Alba Pura, Pure white	20 60
Rosea, Pink	20 60
Mixed, All colors	15 15

Carnation Bands

Used by all progressive florists to utilize bursted carnations.

1000 15c. 25c f r 2000
4500 50c. 75c for 7000
\$1.00 for 10000 all postpaid.

Henry F. Michell Co.
1018 Market St., PHILA., PA.

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for Samples.

E. A. BEAVEN, Evergreen, Ala.

MONTREAL CHRISTMAS HAPPENINGS AND PERSONALS.

Now that Christmas is over we have time to count our joys and sorrows and talk about what the other fellow has done. Trade was very good with beautiful weather until nearly noon Christmas day, when the "Beautiful" came down pretty lively. Cut flowers did not sell perhaps as well as usual, but the great sale of plants more than made up for it.

Mr. Gray of Sinclair's, Wright Floral Co., Harris & Hopton, Miss Murray, McKenna, Rennie & Cooper, and Hall & Robinson report stores crowded with eager buyers all Christmas eve. The latter firm had some very fine cyclamens, some of which had over 150 flowers. McKenna's store was prettily decorated with long streamers of silk ribbons in various hues and holly wreaths. Christmas trees were in great demand and there were not half enough to go around. Mistletoe was very scarce, but holly was in quantity and well berried.

A. Gilmore of Montreal West was burned out the Saturday before Christmas. This is a new place and Mr. Gilmore has the sympathy of the trade. I have just heard that he intends retiring from business and has sold out to Harris & Hopton.

Goulet's driver was recently sent out with some C. O. D. goods but he never came back until one of the "finest" landed him, and he is now doing time with his Christmas dinner thrown in on a bargain.

Bert Graves, whose brother's death is noted in the obituary columns, is much improved in health, but is giving up his store, his impaired health rendering this necessary.

One of Judge's boilers gave out Christmas week with the thermometer 20 below zero, but they fixed up stoves and saved their stock.

Dupuy & Ferguson are having their store repainted and are getting ready for spring. Cooper is also putting in new fixtures.

Bain will remove May first from his Catherine street store, his landlord requiring the store for himself.

Wm. Cooper, Jr., is spending his vacation with friends at Hawkesburg, Ont.

George F. Struck, who has for a number of years successfully represented the orchid specialists, Lager & Hurrell, on the road, has widened his scope and will hereafter also represent the F. R. Pierson Company with a general line of greenhouse plants, bulbs and fancy nursery stock.

The Park Floral Co.

J. A. VALENTINE
Pres.

DENVER, COLORADO

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

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Cor. Miami and Gratiot Aves.
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High Grade Cut Blooms

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KANSAS CITY, - MO.
will carefully execute orders for Kansas City and any town in Missouri or Kansas.

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Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by . . .

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571 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

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"FLOWERS BY TELEGRAPH"



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Connecticut Avenue and L Street
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We ship to all points in Illinois and Iowa.
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Long Stem, Good Flowers

\$15.00, \$25.00 and \$35.00 per 100

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Store open from 7 A. M. to 8 P. M.

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\$6.00 per Dozen

S. S. PENNOCK-MEEHAN CO.

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AMERICAN BEAUTY

and all other Roses

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LILY OF THE VALLEY
CARNATIONS

WELCH BROS.

226 Devonshire St., BOSTON, MASS.

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MANUFACTURERS
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EVERYTHING SEASONABLE IN CUT FLOWERS

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Store Closes 8 P. M.

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Largest Wholesale House Between
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by the thousand.

Beauties, Carnations, Violets

Superb Illustrated Supply Catalogue just
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From 40 to 60 Growers

We can care for your cutflower wants to
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Simple methods of correct accounting
especially adapted for florists' use.

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Valley Violets and all Cut Flowers

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WHOLESALE

CUT FLOWERS

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO December 18	ST. LOUIS	PHILA. December 18	BOSTON January 3
ROSES				
Am. Beauty, Fan. & Sp.	50.00 to 60.00	..... to	60.00 to 75.00	30.00 to 50.00
" Extra.....	25.00 to 35.00	..... to	40.00 to 50.00	20.00 to 25.00
" No. 1.....	10.00 to 15.00	..... to	30.00 to 35.00	12.00 to 15.00
" Lower grades.....	6.00 to 8.00	..... to	15.00 to 25.00	8.00 to 12.00
Bride, 'Maid, Golden Gate, F. & S.	12.00 to 15.00	..... to	12.00 to 15.00	10.00 to 12.00
" " " Ordinary.....	4.00 to 6.00	..... to	6.00 to 10.00	4.00 to 8.00
Liberty, Richmond, Fan. & Sp.	12.00 to 15.00	..... to	18.00 to 20.00	10.00 to 12.00
" " " Ordinary.....	4.00 to 6.00	..... to	6.00 to 12.00	4.00 to 8.00
Chatenay, Fan. & Sp.	15.00 to 18.00	..... to	12.00 to 15.00	10.00 to 12.00
" Ordinary.....	6.00 to 8.00	..... to	6.00 to 8.00	4.00 to 8.00
Killarney, Fan. & Sp.	15.00 to 18.00	..... to	12.00 to 15.00	8.00 to 12.00
" Ordinary.....	6.00 to 8.00	..... to	6.00 to 8.00	4.00 to 8.00
CARNATIONS				
Fancy.....	6.00 to 8.00	..... to	8.00 to 10.00	3.00 to 5.00
Ordinary.....	4.00 to 5.00	..... to	4.00 to 6.00	2.00 to 3.00
MISCELLANEOUS				
Cattleyas.....	50.00 to .....	..... to .....	..... to 75.00	50.00 to 75.00
Lilies, Callas.....	15.00 to 18.00	..... to	15.00 to	10.00 to 12.00
Violets.....	1.50 to 2.00	..... to	1.00 to 1.50	.75 to 1.00
Gardenias.....	..... to .....	..... to .....	..... to 75.00	..... to
Lily of the Valley.....	4.00 to 5.00	..... to	3.00 to 5.00	3.00 to 5.00
Mignonette.....	3.00 to 4.00	..... to	3.00 to 4.00	1.00 to 2.00
Paper White, Roman Hy.....	3.00 to 4.00	..... to	3.00 to 4.00	2.00 to 2.50
Adiantum Cuneatum.....	1.00 to .....	..... to .....	.75 to 1.00	.50 to 1.00
" Croweanum.....	..... to 1.50	..... to .....	..... to 1.50	1.00 to 1.50
Smilax.....	..... to 12.50	..... to	12.50 to 15.00	12.00 to 16.00
Asparagus Plumosus, strings..... to 50.00 to to 50.00 to 50.00
" " & Sprenger bunches	35.00 to 50.00 to to 50.00	20.00 to 50.00

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AMERICAN BEAUTIES

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35-37 Randolph St., CHICAGO, ILL.

**The Florists' Supply House
of America**

Can fill hurry orders. Telephone or Telegraph

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1129 Arch St., Philadelphia

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CUTTMAN & WEBER
The Wholesale Florist of New York
43 W. 28 St.,
Lynbrook, L. I., N. Y.

Place your orders early for rooted cuttings. Prices \$6 per 100, \$50.00 per 1000. DISCOUNT FOR CASH WITH ORDER

CUT FLOWER MARKET REPORTS

BOSTON Market very quiet in Boston this week. There is no great superfluity of anything, but demand is so light that prices are receding on all lines. Retailers are settling down on pre-holiday figures and resist paying more. Still trade can be fairly stated as fully up to the average January standard.

BUFFALO Remarkable flourishing condition in trade this season. While the weather has not been so conducive to shopping as last year at this time, florists say the volume of Christmas business in some respects doubled in the plant line. Ardisia, poinsettia, araucaria, Gloire de Lorraine, azalea and cyclamen sold well. It may be said that the severe cold day on Monday before Christmas caused much worry in the delivery of plants. Reports were that a considerable amount were frozen. Pine, holly, wreathing, laurel, boxwood sprays and Christmas trees were in good supply and everything cleaned up well. In the cut flower line business was also brisk. Flowers were somewhat scarce up to Saturday, when stock came in quite abundantly and shipping trade was excellent. Good select stock of Liberty, Richmond and Bridesmaid was scarce. Killarney helped out wonderfully. Beauties were in fair supply and violets were in great demand and sold well and at good prices. Carnations were not too plentiful, but a good supply was had and good stock brought satisfactory prices. Red varieties as usual were most in demand. Easter lilies, swainsona, peas, lily of the valley and other flowers sold well. A few thousand Mrs. Jerome Jones chrysanthemums were still on deck and helped out considerably. Stevia was well in supply, also other greens. The last week in the old year wound up satisfactory to all, and reports from the craft state all well satisfied with the holiday trade. At the time of mailing this report (Monday, Dec. 31) flowers of all kinds are to be had. Violets more abundant and prices much lower than reported, the atmosphere at temperature of 65 degrees, and an ideal spring day.

CINCINNATI The usual bluster about doing "a third more business for the holidays than we did last year" is "not so's you can notice it." Stock of every description was scarce, and consequently high prices prevailed. Poinsettias are still growing in popularity, there being an unusual number grown this season, and it is safe to say that half as many again could have been sold. In roses Beauties were exceedingly scarce but good, while Bridesmaids showed the effects of the cloudy weather and were off color. Vast quantities of violets were sold, but still there was not enough to satisfy

all. Those who were fortunate enough to have the stock did a great business and got their own price for anything that was good. The weather was cold, it being 10 deg. above zero on Christmas morning, and many a dollar's worth of flowers were frozen. The express companies were unable to handle the rush and much of the incoming freight was frozen and delayed from twelve to twenty-four hours. There was but little complaint about pickled stock, but several were the kicks about stock being cut a day or so too soon. Several of the craft who are wont to overstock for the holiday trade will likely find that to them the scarcity of flowers was a blessing in disguise. Plants were more popular than ever before, but much valuable time was consumed in wrapping them to keep out the frost.

COLUMBUS Christmas, as was expected from advance indications, was just about an average business of previous years. All cut stock cost so high, that it was out of the question to get any extra trade over-the-counter. The regular flower buyers bought liberally as usual, but in the absence of any large amount of outside buying, only an average business could be expected. Prices were cut some towards the end, when it was seen that things were going hard. As regards plants they sold very well, but not very much can be said in praise of their quality; on the whole plants were a poor lot. Green stuff sold well and in large quantity, but some of it was very poor quality, especially the holly, much of which was light in color and without berries. Prices for greens showed no change from previous years. On the whole the business was about an average of past seasons. The weather was against trade, being warm and stormy.

DES MOINES The Christmas business seemed to be satisfactory to all engaged in it. Poinsettias were noticeable in all the windows, and sold well. First quality Enchantress carnations were all cleaned up at about 25 per cent advance over the price of other varieties. In the plant line the azalea as usual was the leader, some poinsettias in pans were in evidence, and a variety of other blooming plants, including a good supply of ferns and palms. Bouquet green was scarce, consequently wreathing sold at a high price; in fact the supply was not equal to the demand at that. There seemed to be plenty of holly, fairly well berried. Violets, both single and double, had a good sale.

Loziers', the Alpha Floral Co., and the Iowa Floral Co. all report a record trade. This is the first Christmas for the Iowa Floral Co., so they cannot make a comparison, but they are well

satisfied with the amount of patronage that came to them.

DETROIT Detroit florists are looking back to the largest Christmas business for many years. There was a notable increase in the sale of plants and plant baskets. The wholesale houses were cleared out early and few florists had any flowers left Christmas noon. Violets and carnations were very short; poinsettias helped somewhat to cover this shortage.

LOUISVILLE Business conditions the previous week were very good, stock in almost every line being cleaned out. Carnations had a very good demand, and the supply became short. The quality was excellent. Roses had a satisfactory demand. They were of fair quality, and in good supply. Violets, lilies of the valley, and other stock were in good supply, and had a steady call.

NEW YORK New Year's business was very tame and supplies of all kinds sufficed to supply it. There were not many long Beauties in the market, but a few more from each grower would have been surplus; as it was the price fluctuated and only at the wind-up of business on Tuesday morning did the price steady. Of small roses there were a-plenty to fill all wants and some Brides to spare. Prices were weak throughout all of Monday. Carnations just cleared with many concessions in price. The violet growers kept most of their flowers at home last week and sent them into a market Monday that could not digest them all. The few gardenias and cattleyas shipped in were sold.

PHILADELPHIA Following the Christmas rush the balance of the week was very draggy in the cut flower market here. There were plenty of flowers and of fine quality but no life to the trading. Among roses Killarney was probably the best seller. Beauty was far too plentiful. The flush is over on this variety and it will be scarce from now on. Carnations were fairly abundant but like everything else they suffered from the prevailing sluggishness. If there was improvement anywhere it may have been in the violet market. Mignonette is now coming in and selling well. It is a late crop this year and not of extra quality as yet. Orchids are more plentiful, with prices steady, as last reported. White lilac is now arriving in limited quantity. New Year's trade used to cut a large figure in this market but it has gradually lost its importance and now rises little above the normal day's business.

For other Market Reports see page 21.

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Carnations

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FINE ROSES FANCY CARNATIONS

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	Last Half of Week ending Dec. 29 1906	First Half of Week beginning Dec. 31 1906		Last Half of Week ending Dec. 29 1906	First Half of Week beginning Dec. 31 1906
Roses			Carnations, Ordinary	3.00 to 4.00	3.00 to 4.00
Am. Beauty, fan and sp.	40.00 to 75.00	40.00 to 75.00	Cattleyas	40.00 to 75.00	40.00 to 75.00
" extra	20.00 to 30.00	20.00 to 30.00	Violets	.50 to 1.25	.50 to 1.25
" No. 1	12.00 to 15.00	12.00 to 15.00	Lilies, Callas	12.00 to 15.00	12.00 to 15.00
" Lower grades	2.00 to 8.00	2.00 to 8.00	Gardenias	25.00 to 75.00	25.00 to 75.00
Bride, 'Maid, Golden Gate, fan & sp	10.00 to 15.00	10.00 to 15.00	Lily of the Valley	2.00 to 4.00	2.00 to 4.00
" " ordinary	3.00 to 6.00	3.00 to 6.00	Flagonette	2.00 to 8.00	2.00 to 8.00
Liberty, Richmond, fancy & special	15.00 to 25.00	15.00 to 25.00	Paper White, Roman Hy.	2.00 to 2.00	2.00 to 2.00
" ordinary	3.00 to 10.00	3.00 to 10.00	Adiantum Cuneatum	.50 to .75	.50 to .75
Chatenay fancy and special	10.00 to 15.00	10.00 to 15.00	" Croweanum	..... to .....	..... to
" ordinary	3.00 to 6.00	3.00 to 6.00	Smilax	10.00 to 15.00	10.00 to 15.00
Killarney, fancy and special	10.00 to 15.00	10.00 to 15.00	Asparagus Plumosus, strings	25.00 to 35.00	25.00 to 35.00
" ordinary	3.00 to 6.00	3.00 to 6.00	" & Sprenger, bunches	10.00 to 25.00	10.00 to 25.00
Carnations, Fancy	5.00 to 10.00	5.00 to 10.00			

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NEW CROP**

FANCY FERNS

\$1.50 per 1000

GREEN GALAX \$1.25 per 1000

Discount on Larger Orders

Let us have your standing order for Fern. Will make price right all through season.

BOXWOOD 20c lb., 50 lbs. \$8.50

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ALFRED H. LANGJAHR

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FERN, LENCOTHOE, HOLLY
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GEO. A. SUTHERLAND CO.

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34 HAWLEY STREET - BOSTON

Best Flowers

in the **Boston Market**

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BOSTON, MASS.

SEND FOR PRICES

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ROSES, CARNATIONS

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Wholesale Commission Florist, also Dealer in
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\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

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Fresh Northern, \$1.00 per 1000.

LYRATA, the best substitute for Smilax, \$7.00 per case.

Headquarters for all FLORISTS' SUPPLIES. Wire Designs,

Cut Wire, Letters, Immortelles, Cactus Leaves, Wheat

Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 10 Province St., Boston, Mass.

L. D. Telephone, Main, 2613.

WHOLESALE FLOWER MARKETS.

PER 100.

TO DEALERS ONLY.

	CINCINNATI January 1		DETROIT December 14		BUFFALO January 1		PITTSBURG December 31	
ROSES								
Am. Beauty, Fan, and Sp. ....	.....	to 100.00	100.00	to	80.00	to	75.00	to 80.00
" Extra	60.00	to 75.00	50.00	to	40.00	to 50.00	50.00	to 60.00
" No. 1	40.00	to 50.00	75.00	to	35.00	to	25.00	to 35.00
" Lower grade	20.00	to 25.00	60.00	to	8.00	to 12.00	8.00	to 10.00
Bride, 'Maid, Golden Gate, F. & S.	10.00	to 12.00	12.00	to 18.00	15.00	to 18.00	12.00	to 15.00
" Ordinary	6.00	to 8.00	6.00	to 10.00	5.00	to 10.00	4.00	to 8.00
Liberty, Richmond, Fan, & Sp.	12.00	to 15.00	12.00	to 18.00	15.00	to 20.00	15.00	to 20.00
" Ordinary	8.00	to 10.00	6.00	to 10.00	5.00	to 10.00	4.00	to 8.00
Chatenay, Fancy	12.00	to 15.00	12.00	to 18.00	15.00	to 18.00	10.00	to 15.00
" Ordinary	8.00	to 10.00	6.00	to 10.00	5.00	to 10.00	4.00	to 6.00
Killarney, Fan & Sp. ....	.....	to	12.00	to 18.00	12.00	to 15.00	15.00	to 20.00
" Ordinary ..	.....	to	6.00	to 10.00	6.00	to 12.00	6.00	to 12.00
CARNATIONS								
Fancy	5.00	to 6.00	6.00	to 8.00	5.00	to 6.00	5.00	to 8.00
Ordinary	2.00	to 4.00	3.00	to 4.00	2.00	to 4.00	2.00	to 3.00
MISCELLANEOUS								
Cattleyas .....	.....	to	60.00	to .....	.....	to .....	.....	to
Lilies, Callas .....	.....	to 15.00	15.00	to 20.00	6.00	to 20.00	20.00	to 25.00
Violets	1.00	to 3.00	2.00	to 2.50	1.00	to 1.50	1.00	to 1.75
Gardenias .....	.....	to	4.00	to .....	.....	to	75.00	to 90.00
Lily of the Valley	3.00	to 4.00	4.00	to 5.00	3.00	to 5.00	2.00	to 4.00
Mignonette .....	.....	to	3.00	to 8.00	3.00	to 6.00	3.00	to 8.00
Paper White, Roman Hy.	2.00	to 3.00	3.00	to 4.00	2.50	to 3.50	2.00	to 3.00
Adiantum Cuneatum .....	.....	to 1.00	1.00	to 1.50	1.50	to 1.00	.75	to 1.00
" Croweanum ..	.....	to	1.00	to 1.50	1.00	to 1.50	1.25	to 1.50
Smilax	12.50	to 15.00	12.50	to 15.00	.....	to 15.00	12.50	to 15.00
Asparagus Plumosus, strings ..	40.00	to 50.00	50.00	to 75.00	40.00	to 50.00	35.00	to 50.00
" "								

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in our new building with a full line of
our own manufactured and imported

Baskets, Beauty Vases, Kneeling Benches, Screens, Gates, etc.

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J. STERN CO., 125 N. 10th St., Philadelphia

Look through the Buyers' Directory
and Ready Reference Guide. You
will find some good offers there also.

The KERVAN CO. 20 WEST
27th ST., N. Y.

WHOLESALE DEALERS
Fresh cut Palmetto & Cactus Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen

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Ready Reference Guide

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ADIANTUMS.

A. Mitting, Santa Cruz, Cal.
Adiantum Pedatum.

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05.
A. Ley & Bro., Langdon, D. C.

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Asparagus plumosus nanus and Sprengeri,
2 1-2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kastling, 385 Ellicott St., Buffalo, N. Y.

Asparagus Crawshawii, a new, beautiful asparagus. Seedlings, \$3.00 100; \$25.00 1000; transplanted seedlings, \$5.00 100; \$40.00 1000. Jas. Crawshaw, 403 Plainfield, Providence, R. I.

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Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2 Bowery New York.

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31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.
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Is Your Name In The Above
List? If Not, Why Not?

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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone
connections.

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Pot hangers, Kramer's \$1 doz. by exp.
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The beautiful new pink rose, MISS
KATE MOULTON is the queen of all
pink roses. It's a winner and you should
grow it. Price \$30.00 100; 500 \$125.00;
1000 \$200.00; 5000 and upwards \$175 per
1000. Minneapolis Floral Co., Minneapolis,
Minn.

Baby Rambler roses, fine dormant stock,
one year, \$12 per 100, 2 1/4-in. pot plants,
extra well rooted, \$4 per 100, \$30 per M.
Orders booked for delivery now or any
time up to the late spring. Samples free.
Brown Brothers Company, Rochester, N. Y.

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T. J. Grey & Co., 32 So. Market St.
Boston, Mass.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
33 Barclay St., New York.
For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y.
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H. F. Michell Co., 1017 Market St.
Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

W. W. Rawson & Co., 5 Union St., Boston.
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Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Rickards Bros., 37 East 19th St. New York.
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Johnson Seed Co., 217 Market Street,
Philadelphia.

For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and
Tree Seeds.

SHEEP MANURE.

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Wizard Brand.
For page see List of Advertisers.

SHEET MOSS.

E. A. Reaven, Evergreen, Ala.
For page see List of Advertisers.

SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$125; 2 bales,
\$225; 5 bales, \$5.00; 10 bales, \$9.50. Cash
H. R. Akers, Chatsworth, N. J.

SPIRAEA.

J. M. Thorburn & Co., New York.
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H. F. Michell Co., Philadelphia.
For page see List of Advertisers.

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
For page see List of Advertisers.

STEAM TRAP.

E. Hippard, Youngstown, O.
For page see List of Advertisers.

TOMATO SEEDS.

Wm. Sim, Cliftondale, Mass.
Comet Tomato.
For page see List of Advertisers.

VENTILATING APPARATUS.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
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Weathered Co., 46 and 48 Marion St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.
The Chicago Lifter.

VIOLETS.

H. k. Carlton, Willoughby, O.
Violet, Gov. Herrick.
For page see List of Advertisers.

WILD SMILAX.

E. A. Beaven, Evergreen, Ala.
Southern Smilax.
For page see List of Advertisers.

WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
Cincinnati, O.

WHOLESALE FLORISTS.**Boston.**

N. F. McCarthy & Co., 84 Hawley St.,
Boston.
For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St.,
Boston.
For page see List of Advertisers.

George A. Sutherland Co., 34 Hawley St.,
Boston.
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Welch Bros., 226 Devonshire St., Boston.
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Buffalo.

Wm. F. Kastling, 383-87 Ellicott St., Buf-
falo, N. Y.
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Chicago.

Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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A. L. Randall Co., 19-21 Randolph St.,
Chicago.
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E. F. Winterson Co., 45-49 Wabash Ave.,
Chicago.
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Poenmann Bros. Co. 35 Randolph St.,
Chicago.
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Detroit.

Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Diger, mgr.
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New York.

J. K. Allen, 106 W. 28th St., New York.
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Wm. Stuart Allen Co., 53 W. 28th St.,
New York.
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C. W. Eherman, 53 W. 30th St., New York.
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J. S. Fenrich, 110 W. 28th St., New York.
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**WHOLESALE FLORISTS—Continued
New York.**

Ford Bros., 48 West 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 48 West 28th St.
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E. C. Horan, 55 West 28th St., New York.
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Philip F. Kessler, 55 W. 28th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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Johnal. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Traendly & Schenck, 44 W. 28th St., New
York.
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Hicks & Crawbuck, Inc., 76 and 78 Court
St. Brooklyn, N. Y.
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A. L. Young & Co., 54 W. 28th St., N. Y.
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John Young, 51 W. 28th St., New York.
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Philadelphia.

W. E. McKissick, 1221 Filbert St., Phila-
delphia, Pa.
For page see List of Advertisers.

Leo Niessen Co., 1217 Arch St., Phila-
delphia, Pa.
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The S. S. Pennock-Meehan Co., 1608-18
Ludlow St., Philadelphia, Pa.
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Edward Reid, 1526 Ranstead St., Philadel-
phia, Pa.
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Pittsburg.

J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.
For page see List of Advertisers.

Pittsburg Florists' Exchange, 228 Diamond
St., Pittsburg, Pa.
For page see List of Advertisers.

New Offers in This Issue.**ASPARAGUS PLUMOSUS NANUS
GREENHOUSE GROWN: CAR-
NATION BANDS.**

H. F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

CARNATIONS ROOTED CUTTINGS.

A. W. Williams, Highland, N. Y.
For page see List of Advertisers.

CHINESE PRIMROSES: DAHLIAS.

Harlowarden Greenhouses, Greenport,
N. Y.
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GREENHOUSE HEATING.

W. H. Lutton, Jersey City, N. J.
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**GALAX, MOSS, SMILAX AND
SOUTHERN GREENS.**

Caldwell the Woodsman Decorating Co.,
Evergreen, Ala.
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LILY OF VALLEY PIPS.

Johnson Seed Co., Philadelphia.
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SPECIMEN EASTER AZALEAS.

W. W. Edgar Co., Waverley, Mass.
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**SPIRAEAS AND FORCING BULBS
FOR EASTER.**

The F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
For page see List of Advertisers.

WHOLESALE FLORIST.

Charles H. Totty, Madison, N. J.
For page see List of Advertisers.

LEADING GARNATIONS

Early delivery of well rooted first class healthy cuttings. Send in your order early.

CHICAGO CARNATION CO.,

ARISTOCRAT (Beautiful Cerise)

RED RIDING HOOD (Scarlet)

Also many other good ones.

Catalogue ready Jan. 1st 1907

JOLIET, ILL.

A. T. PYFER, Manager.

PERSONAL.

A. Lozier of Des Moines is in the South for his health, and the business is being ably managed by his brother Harvey during his absence.

Ernest March, formerly at Grey-stone, Yonkers, N. Y., assumed the position of foreman of the greenhouses at Wyndhurst Gardens, Lenox, Mass., on January 1, 1907.

Dr. H. J. Webber of the Bureau of Plant Industry, Washington, D. C., will take charge of a new department at Cornell University to be known as the department of experimental plant biology.

Orlando Harrison, president of the National Association of Nurserymen, E. Albertson of Bridgeport, Ind., and Prof. John Craig of Ithaca, N. Y. were in New York last Saturday attending the conference of Economic Entomologists.

Gus. Papas of Des Moines got back to his store Christmas day, after three weeks in the hospital, undergoing a very critical operation. During his absence the Alpha business was in charge of G. A. Conopulos of Chicago.

GERANIUM

Wholesale catalogue and price list contains descriptions of seventy-five of the best standard sorts and 100 imported novelties, sent free to trade only.

R. VINCENT, Jr. & SON
WHITE MARSH, MD.

LADY GAY AND HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

Catalogue mailed on request.

M. H. WALSH
ROSE SPECIALIST WOODS HOLE, MASS.

SPECIMEN NURSERY STOCK

Deciduous Trees and Shrubs, Evergreens, Rhododendrons, Azaleas, over one hundred (100) acres of the choicest varieties.

SEND FOR PRICE LIST

COTTAGE GARDENS CO.
Queens, Long Island, - New York

John Waterer & Sons, Ld. AMERICAN NURSERY BAGSHOT, ENGLAND

have the finest stock of recognized **Hardy Rhododendrons, Azaleas, Andromedas**, high class Evergreens and specimen Conifers. **Ask for special list of plants grown for the American trade.**

John Waterer & Sons are the **great exhibitors of Rhododendrons in London.**

GREENHOUSES BUILDING AND PROJECTED.

New.

Exeter, N. H.—Edgar Prescott, one house.

Additions.

Pomfret, Ct.—R. Clark, one house.
Oakland, R. I.—Amos Darling, one house.

Benton, Pa.—Harvey Ash, one house, 40x60.

Franklin, Mass.—M. J. Van Leeuwen, one house.

Petersburgh, Ont.—Frank Mason, one house, 24x65.

Watertown, Wis.—Loeffler & Benke, one house, 30x100.

Pittsburg, Pa.—Randolph & McClements, enlarging.

CUT FLOWER MARKET REPORTS.

Continued from page 15.

INDIANAPOLIS The trade in general report the most successful Christmas in years. Probably never before were so many plants sold. The chief method of selling them was in made-up baskets, flowering and foliage plants being mixed. Nothing new was to be seen, but there were a much larger number of azaleas handled than in former years. As usual the pieces of cut flowers went very high, Beauties and tea roses being very scarce. The retail stores bought heavily out-of-town as the home growers could not begin to supply the demand. That plants are being used more and more at this season is evident and that the cut flower trade does not increase proportionately has also been apparent this season. The evergreen trade was exceptionally good, holly being sold in large quantities.

A FITTING TRIBUTE.

In memory of the late Lewis Ullrich and his efforts in beautifying the city, David J. Stalter, a friend of many years' standing, has bequeathed to the city of Tiffin, Ohio, a parcel of ground to be known as Ullrich Place. The land is centrally located and contains a handsome maple grove.

WANTED.—Man with some experience in growing of ferns. Steady employment to sober and industrious man. Address: A. Lenthly & Co., Rosindale, Mass.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FLORISTS' WAGONS FOR SALE

Three florists' open wagons, three florists' top wagons and three sets of harnesses. Can be seen at 1 West 28 St., New York.

EDWARD HICCINS.

FOR SALE—Greenhouse Pipe

4-in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—Private place preferred as head gardener. Married; two children; good reference. A. N., care R. & J. Farquhar Co., Boston.

WANTED.—An assistant for a private place, one with a good general knowledge of greenhouse work, and an intelligent worker. State nationality, age, etc. Wages \$75.00 per month. Address in first instance Nax, HORTICULTURE, 11 Hamilton Place, Boston.

WANTED.—200 Ulrich Brunner plants ready to put into house at once. State price and particulars. C. G., care HORTICULTURE, 9th and Market Sts., Phila.

PATENTS

Trademarks and
Copyrights

Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

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PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

Tobacco Paper "NICO-FUME" LIQUID

IS THE
**STRONGEST,
BEST PACKED,
EASIEST APPLIED.**

24 sheets.....	\$ 0.75
144 sheets.....	3.50
288 sheets.....	6.50
1728 sheets.....	35.10

**Furnishes the
Most Nicotine for the Money!**

... Manufactured by ...
THE KENTUCKY TOBACCO PRODUCT CO.,

Louisville, Ky.

OVER 40% NICOTINE

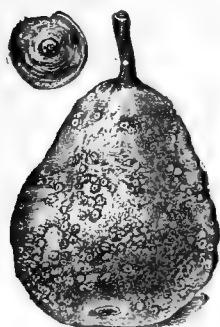
**By far the
CHEAPEST.**

JUST NOTE PRICES!

Pint.....	\$ 1.50
1/2 Gallon.....	5.50
Gallon.....	10.50
5 Gallons.....	47.25

"HORICUM"

TRADE MARK



San Jose Scale on a Pear.

Kills San Jose.

HAMMOND'S SLUG SHOT WORKS.

"HORICUM" A Scale Killer and Fungicide

A preparation for the destruction of the "SAN JOSE SCALE"; carefully prepared and put up in packages for general use.

"HORICUM" can be obtained from many of the Seedsmen in the United States. A description of the article is aptly told in the pamphlet. It is put up in quarts and gallons to 50 gallon barrels. It is the Lime, Sulphur, and Salt combination, concentrated.

ABOUT "HORICUM"

Glenside, Pa., March 31, 1906.

Hammond's Slug Shot Works, Fishkill-on-Hudson, N. Y.

Gentlemen: Seeing "Horicum" mentioned in Monthly Bulletin of Div. of Zoology, Penna., I would thank you to inform me where I can get a supply, say about a gallon, for trial. The San Jose Scale is very bad around this section and could no doubt push sale of the solution, especially as it is spoken of so highly in the above mentioned Bulletin.

P. S. Glenside is twelve miles from Philadelphia.

Yours respectfully, H. J. HINDS.

Send for Pamphlet on "Bugs and Blights" to B. Hammond, Fishkill-on-Hudson, N. Y.



Standard Flower.. POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money

W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.



RHODES DOUBLE OUT PRUNING SHEAR



Cuts from both sides of limb and does not bruise the bark.

We pay Express charges on all orders.

Write for circular and prices.

Dept. 4.

GRAND RAPIDS, MICH.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 2 1/2 " " 5.25	60 8 " " 3.00
1500 3 " " 6.00	
1000 3 " " 5.00	HAND MADE
800 3 1/2 " " 5.80	48 9 in. pots in crate \$3.60
500 4 " " 4.50	48 10 " " 4.80
320 5 " " 4.51	24 11 " " 3.60
144 6 " " 1.16	24 12 " " 4.80
	12 14 " " 4.80
	6 16 " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases etc. Ten percent off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Holds Glass Firmly

See the Point **PEERLESS**

Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DREER,
714 Chestnut St., Phila., Pa.

**FULL SIZE
N. 2**



**NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL.** For particulars address

John G. Esler, Saddle River, N. J.

GREENHOUSE MATERIAL.

OF ALL KINDS

FOLEY MFG. CO. 471 W. 22ND ST. CHICAGO

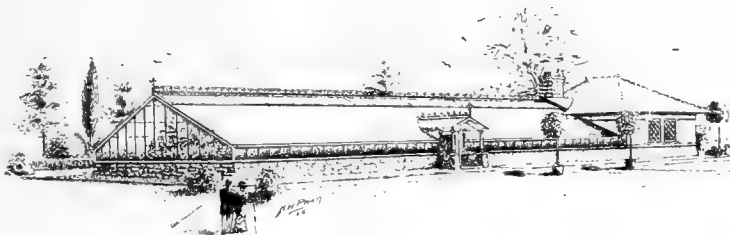
VENTILATING APPARATUS PURLIN FITTINGS, HOT-BED SASH &c.

SEND FOR NEW FREE ILLUSTRATED CATALOGUE -

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.

FOLEY MANUFACTURING COMPANY, 471 W. 22d Street, Chicago.

Promptness and Good Workmanship



The above combined with personal attention to all work, and the fact that I have in my employ men especially selected for their proficiency in greenhouse heating and building assures you of the best results possible for the amount of money expended.

Private gardeners and commercial florists in all parts of the country for whom I have installed work will verify the above. (Send for list).

IS YOUR HEATING PLANT IN ORDER FOR THE COMING WINTER?
IF NOT CAN SEND YOU COMPETENT MECHANICS AT ONCE.

Everything for Heating and Ventilating, Grates, Smoke Boxes, Etc.

WILLIAM H. LUTTON, West Side Ave. Station, JERSEY CITY, N. J.

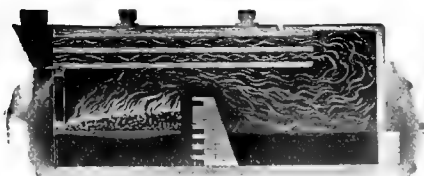
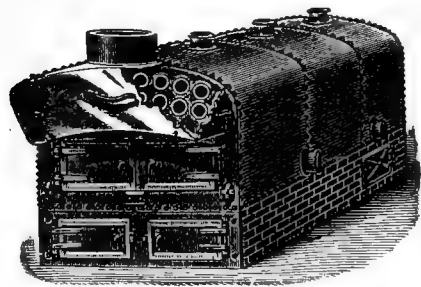
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Eastern Agent Furman Boilers, write for prices

Kroeschell Bros. Co.

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Greenhouse Boiler,
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Boilers made of Steel Boiler Plate; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

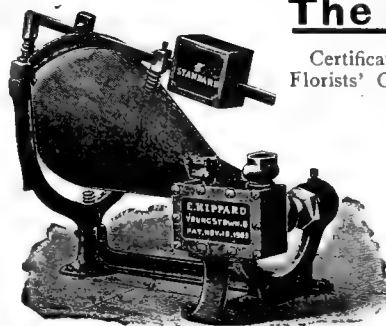
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GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

The Standard Steam Trap



Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

E. HIPPARD, Youngstown, Ohio

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE. 74 FRANKLIN ST. BOSTON

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL.

WEATHERED COMPANY

BOX 789, NEW YORK

GREENHOUSE BUILDING AND HEATING

Send for Catalogue

SEND FOR CATALOGUE OF
SCOLLAY HOT WATER
and **STEAM BOILERS**
JOHN A. SCOLLAY

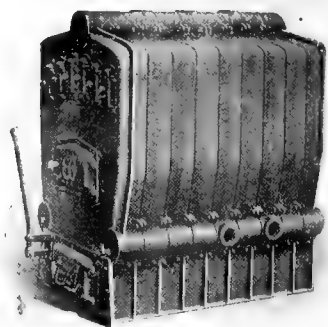
73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY



GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.
117 E. Blackhawk St., CHICAGO

H AND C



WHEN IT COMES TO BOILERS

every florist is familiar with our old standby, the humped back corrugated,— know what it will do by what it has done—but not all of you know our new friend, the Sectional. If it's a sectional you want, this new friend of ours is the best sectional greenhouse boiler that is made. It is the boiler of economy.

HITCHINGS AND CO.

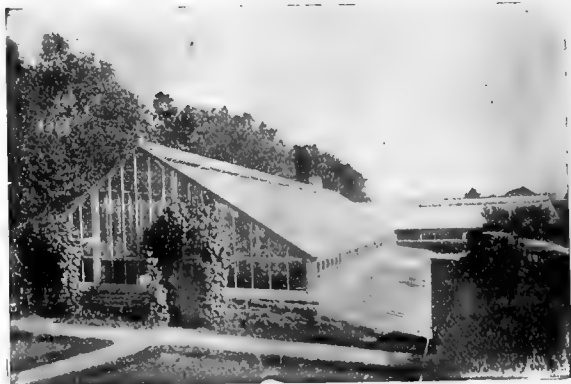
GREENHOUSE DESIGNERS AND BUILDERS.

Manufacturers of Heating and Ventilating Apparatus.

1170 Broadway,

NEW YORK.

H AND C



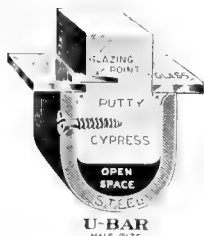
IT'S UP TO YOU

whether your greenhouse has attractive surroundings, for we erect a house that because of its very simplicity of lines is a pleasure to look at, always an addition to your grounds. Effects, however, are not sought at the expense of the practical. We build a light, enduring house with every point of convenience and economy made the most of.

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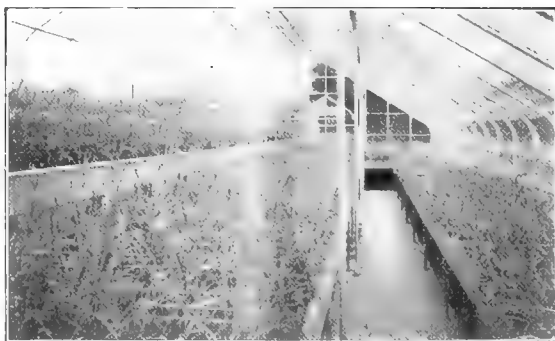
Greenhouse Designers and Manufacturers

1133 BROADWAY, cor. 26th Street, N. Y.
BOSTON Branch: 819 Tremont Building



LAST week we had to omit part of Thomas Proctor's letter about U-Bar houses because of lack of space, but here is his last clause: "The light we get is perfect and the growing capacity of the houses, seems to me to be beyond anything I have ever experienced." You will recall that Mr. Proctor is

Superintendent for R. W. Patterson, Lenox, Mass. Send for our new catalogue. **Pierson U-Bar Company, Designers and Builders U-Bar Greenhouses, Metropolitan Building, Fourth Avenue and 23rd Street, New York.**



HORTICULTURE

Vol. V.

JANUARY 12, 1907

No. 2



BEGONIA GLOIRE DE LORRAINE FOR CHRISTMAS

As grown by Samuel Murray, Kansas City, Mo.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
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Subscription, \$1.00*

IMPERIAL and PINK IMPERIAL CARNATIONS

You Cannot Afford to be Without these Two Excellent Varieties

Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order

A. J. GUTTMAN,

The Wholesale Florist of New York
43 WEST 28TH STREET

JOHN E. HAINES,

BETHLEHEM, PA.

PLANT NOW FOR EASTER

SPIREA FOR EASTER FORCING

If you have not all the spirea that you want for Easter and Decoration Day, we still have a few thousand fine clumps left, which we offer as long as unsold as follows:

Gladstone. The best of all the spireas. Free bloomer, fine large spikes. Extra. Selected clumps, \$12.00 per 100.
Astilboides floribunda. \$5.00 per 100, case of 300 clumps for \$12.00.
Compacta multiflora. Strong clumps, \$6.00 per 100.
Japonica. Strong clumps, \$5.00 per 100.

GLADIOLUS COLVILLI

Alba "The Bride." White. 75c. per 100, \$6.00 per 1000.
Kubra. Red. 60c. per 100, \$5.00 per 1000.

MINIATURE HYACINTHS, or DUTCH ROMANS.

We still have a few thousand of these left, which we can supply in a fine assortment of named varieties. \$2.00 per 100, \$16.00 for 1000.
These can be potted up, if done at once, and will make nice Easter stock.

NARCISSUS

Double Von Sion. We have a few thousand extra quality bulbs to offer. \$1.50 per 100, \$12.00 per 1000.

Priniceps. A few thousand extra sized bulbs. 75c. per 100, \$6.50 per 1000.

Single Von Sion. \$1.25 per 100, \$10.00 per 1000

TULIPS

Cottage Maid. The best pink for late forcing. \$1.00 per 100, \$8.00 per 1000.

Keizerskroon (Grand Duc). The favorite forcing variety. \$1.75 per 100, \$15.00 per 1000.

LILY OF THE VALLEY

Pierson's Premier. Best selected Berlin for earliest forcing. \$1.50 per 100, \$13.00 per 1000. Case of 2000 for \$24.00.

If you can use any of the stock offered, let us have your order quickly.

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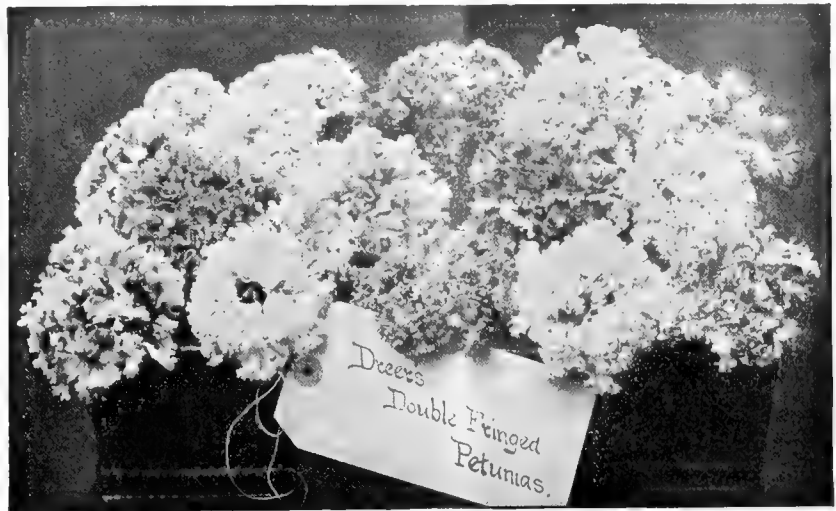
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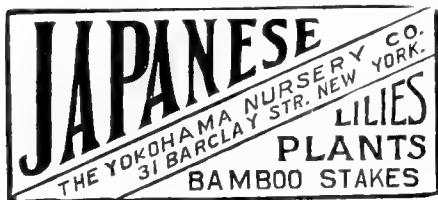


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Sold by the seed dealers.
For fine pamphlet, write to
HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.

Ornamental Conifers—Pinus

(Continued from Page 717)



PINUS STROBUS NANUS

FIVE NEEDLES IN A BUNCH

Pinus Strobus, the white pine, is well known for its usefulness in big plantations; there are some very distinct forms of it to isolate or to plant in beds. *Str. umbraculifera*, a dwarf growing form with long silvery needles; *Str. nana* or *pygmaea*, another dwarf growing form, compact, with erect shoots and short needles; *Str. pyramidalis*, of a narrow, straight growing habit; *Str. gracilis viridis* has very thin green needles but is a slow grower. *P. monticola*, the western white pine, looks much like *Strobus*, growth more slender and of dark green color; isolated on the lawn it is of good effect.

P. Balfouriana or *cristata* from the eastern slopes of the Rocky Mountains is a curious pine; the long shoots are clothed with short needles adpressed against the shoots with a brush like end. It is a slow grower but interesting and hardy. There are a few dwarfer and stouter growing forms found, according to the altitude where they come from.

P. Lambertiana, the sugar pine, is a western tree, the tallest of all the American pines. It grows to a high, narrow pyramid, and is a beautiful tree but does not thrive very well in the East.

P. Cembra, the European stone pine, is a very nice tree for the lawn. When young it is very compact and pyramidal in form; very distinct and hardy. There



PINUS PEUCE

is a Siberian form, a more vigorous grower with slender habit and shorter needles.

P. Peuce, or *Peuke*, from Macedonia, is another good tree for small lawns, of a perfect dense pyramidal form, very compact, dark green in color and resembles *cembra* when young but has longer shoots, longer needles, and is larger in diameter; it is said to be a form of *excelsa*.

P. excelsa, Himalaya pine. A noble tree resembling *Strobus*, with longer pendant needles and a more drooping habit in the branches. It is a tree which wants much space as in mature specimens the branches spread a great distance.

P. parviflora comes from Japan, has short rough recurved needles of a dark grayish green color, does not grow to a great size and is of an irregular spreading habit; good for the small lawn. *P. brevifolia* is a form with shorter recurved needles and is a smaller tree of the same habit.

P. pentaphylla is often mistaken for *parviflora* which it much resembles. It is a more northern tree, however, also from Japan, having the same way of growing, but with longer and lighter green needles.

Am. Ed. Ham

**Next Week's Issue Goes to Every Carnation Grower.
Get Your Ad. In Line Quick.**

HORTICULTURE

VOL. V

JANUARY 12, 1907

NO. 2

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.**11 Hamilton Place, Boston, Mass.**

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager**SUBSCRIPTION PRICE**

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 05.

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

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one a severe loss in his taking away to his associates and fellows. Serious as are such bereavements to family and personal friends they are none the less so to the cause of horticulture generally, although, perhaps, not so keenly felt at the time. We hope that the year now opening will deal gently with us and that the energetic men who are the mainstay of our commercial and society life today may all be still with us when 1907 has passed into history.

Plain catalogues this year

Attention has been called, some time since, in our seed trade notes to the inconvenience suffered by the catalogue makers as a result of the widespread strike of the lithographers. Rarely does the course known as a strike benefit those on whose behalf it is made or permanently remedy any of the evils against which it assumes to protest. So far, however, as the intent is to inflict injury on others the strike is always a pronounced success and, in the long run, all those concerned in it are pretty sure also to suffer equal or greater penalty. The catalogues which are now beginning to come to hand are, as expected, models of plainness, although there are a few exceptions, such as where one seedsman took the precaution to order his colored covers from abroad. But the contents and the stock represented is just as desirable as though exploited in the highest style of the lithographic art and it would be absurd to imagine that the sale of seeds for the coming season will be any less than it would have been otherwise. So the loss falls not so much on the seedsmen as on the lithographic trade and, furthermore, we should not be surprised to see a permanent curtailment of the amount spent annually by the seed dealers on lavish catalogue adornment. If it should so turn out no harm will come of it and there will be more money available to put into quality of seed and encourage careful seed growing, which will be a better place for it than the lithographers' pockets.

The Lima Bean—Black or White

Editor HORTICULTURE:—I have been much interested in Mr. O'Mara's instructive essay on "Sports," and desire to give an experience of my own, with Bush Lima Beans. About ten years ago I bought two kinds of Bush Lima seed—Henderson's, and a black seeded variety—name forgotten. The black seeded variety was very hardy and productive—a counterpart of Henderson's in every way, except in color of seed. They were sown on the same patch—three rows of each. When nearing maturity I noticed among Henderson's an extra robust-looking plant with larger pods and seeds—the seeds were green. Henderson's are white. I marked the plant for seed. It had besides a running habit—not decidedly so, or as much as the common climbing Sieva Lima. The next season I sowed all the seeds in a long row and watched their development closely throughout the season. Many resembled Hen-

As usual at this dreary season of the year it has been our sad duty to report, in our recent issues, many deaths in the profession, some shining lights and others more obscure, but each filling his place in the profession as seemed to him best, and each and every

Death
keeps busy

derson's in habit, and some "ran"; these latter I pulled out. A little more than half took the true bush form. The healthiest and most prolific were marked separately—about 25 per cent. Imagine my surprise when I came to shell out the seed to find nearly half of them were black. I had in mind when I selected it to introduce the variety. That it could not be depended upon to come true from seed I saw at once was a certain drawback, but I felt no doubt, that by selection, that would be overcome.

In this surmise I was doomed to disappointment. For next season's trial I selected all the largest white seeds, and did not sow any black ones. About half came black and a few of the white ones "ran," but I pulled out all of these except one or two to test as to whether the running forms would go "black." Furthermore, I noted the second season as to whether any plant bore part of each color. No; they were either black or white. Though I planted them for five years afterwards, there was still a large proportion of black seeds, and never a black seed planted, or grown anywhere near to my knowledge. I then gave them up for a bad job, but others continued the work later and reported always a few black ones.

Can any of your readers tell me if the Lima bean in a wild state is black or white? I have a suspicion that this was a case of reversion, and that the black seeded variety is a stronger type.

J. D. Hatfield

Wellesley, Mass.

National Chrysanthemum Society of England

WINTER EXHIBITION

The chrysanthemum season in England may now be said to have come to an end. It began with the show organized by "The Evening News" on the 20th of September and terminated with the N. C. S. exhibition of late flowering chrysanthemums at the Crystal Palace on the 5th and 6th of December. Between those dates there have been, as usual, numerous shows all over the United Kingdom.

At the final gathering of the "mum"-loving fraternity Mr. H. J. Jones exhibited a very handsome floral arrangement that denoted the exercise of great artistic skill and ingenuity. It consisted of a large oval shaped group 33 ft. x 12 ft. set up on a ground of dark green cloth. The blooms were arranged in huge bunches of finely developed examples in tall Japanese vases. Others were staged in bamboo supports, while for variety there were dotted here and there round the margin of the group single specimen blooms in small vases. Mingled with the various masses of color were bamboos and ornamental foliage plants, and the whole

enclosed, so to speak, with an edging of ferns. The most effective vases of blooms in the group were composed of Algernon Davis, Mrs. F. Lunt, Mme. Rene Oberthur, Market Gold, Money-maker and Mrs. Beech, a grand self-colored incurved, big and solid, pale yellow. There was a goodly array of singles also shown in masses and these pretty varieties against the big Japanese formed a striking contrast that seemed to be much appreciated by the visitors.

Messrs. H. Cannell & Sons had a collection of cut chrysanthemums in vases. Nagoya, Embleme Poitevine, Yellow Lord Brooke, Cannell's Late Prolific, Winter Cheer, Princess Victoria, Heston White, Golden Age and many others being included. The same exhibitors also staged one of their well-known brilliant compositions of zonal pelargoniums.

Messrs. John Peed & Sons had a pretty group arranged for decorative effect. Ferns and palms intermingled with big blooms and singles in great variety formed the chief characteristic of this display.

Mr. Phillip Ladds showed cut chrysanthemums in vases. Mme. Ed. Roger, Mme. G. Rivol, Western King, Snowdrift, Mlle. Louise Charvet, Nagoya and Buttercup were plentifully shown.

Mr. Wells had a very nice lot of singles and decorative kinds also arranged in vases. We particularly noticed Mrs. W. J. Harting, King of Siam, Mrs. J. Carlisle, F. W. Smith, Harold Shaw, Gracie Trower, Gertrude.

The floral art was well represented by many exhibitors. Handsomely arranged baskets, and epergnes filled with chrysanthemums and autumn foliage in endless variation shared the artistic value of the popular flower at this dull season of the year.

A class that would probably excite interest in the minds of those who visited an English show for the first time was that for six benches of small-flowered chrysanthemums. Quite a long array of vases included these exhibits composed of dainty little button-shaped chrysanthemums not an inch in diameter. Little Pet, Snowdrop, Primrose League, Lilac Gem, and Miss G. Waterer were some of the most attractive of these little floral gems.

The ordinary competitive classes for six, twelve and twenty-four cut blooms in the incurved and Japanese sections, the blooms being shown on boards, were well filled. Other classes were provided for by the schedule in which the competitors staged their exhibits in vases.

Flowering begonias were a feature of the show. Gloire de Lorraine being set up in an imposing array. Carnations were contributed by M. S. Mortimer and Messrs. Cutbush & Son who had a fine table, not for competition. Duchess of Portland, Mrs. R. Norman, Ethel Ward, White Lawson, Fair Maid, St. Louis, General Kuroki and many others were staged.

Chas. Man Payne

NEWS OF THE CLUBS AND SOCIETIES

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting of this society was held on the 4th instant at which the installation of its new officers took place: President, W. J. Bennett; vice-president, Arthur T. Caparn; secretary, Henry Halbig; treasurer, William Reid; conducted by the retiring president, D. Kindsgrab. Reports were read showing a membership of seventy in good standing. Eleven competitive floral displays, a fall exhibition and special rose and dahlia nights have been held. Seven silver cups and eighty-six certificates have been awarded. The winners of the seven cups were Peter Duff, William Reid, Max Schueyder, William Phillips, Arthur T. Caparn, A. W. Bodwell and Lager & Hurrell. Among those certificated were Julius Roehrs Company, Alex. Guttman, F. R. Pier-son Co., Lager & Hurrell, John E. Haines and Joseph A. Manda. Generous patrons have raised the balance in the treasury to three hundred dollars. Essays or addresses have been made at nine of its meetings at which the average attendance was thirty-two. The largest attendance was forty-two, at a lantern slide exhibition of English scenery and the smallest, twenty-four, at the annual election on Dec. 7. In its final deliberations it was decided to continue the monthly floral displays and the giving of medals instead of cups is under consideration. An invitation was read from the Morris County Gardeners to their smoker on the 9th. Among the floral exhibits of the evening were a vase of lily of the valley with stems nineteen inches from base of stem to top of flowers, shown by Julius Roehrs Company and a white *Cattleya labiata* shown by Thos. Jones.

JOSEPH B. DAVIS.

THE AMERICAN CARNATION SOCIETY.

President Dunlop has authorized me to announce through the trade papers that exhibits for the show to be held in Toronto, Ont., Jan. 23d and 24th, will have to be staged by 2 P. M., Jan. 23d, instead of 1 P. M. as announced in the premium list.

This addition of one hour to the time for staging was thought advisable on account of the fact that some of the trains do not get in until 10:30 and if they should be a bit late it would not give exhibitors time to get their flowers staged by 1 P. M.

Kindly remember that entries are to reach the Secretary not later than Wednesday, Jan. 16th. Entries made at the show cost \$1.00 for each entry, and if they do not reach here the 16th there is danger of their coming in after I have left for Toronto.

ALBERT M. HERR, Sec
Lancaster, Pa.

For the trip to Toronto, January 22-25, 1907, we will use the New York Central lines, and arrangements have been made to attach an extra sleeper to train leaving Grand Central Station 8 p. m., Tuesday, Jan. 22, arriving at Toronto 10:50 a. m., Wednesday, for the accommodation of members from

New York and contiguous territory. In order that we may early perfect all arrangements for the car, it is requested that members advise the undersigned as soon as possible if going, and space desired.

The rate authorized is one and one-third fare on the certificate plan, or \$11.85 from New York going, and one-third, or \$3.55, returning, conditioned on there being 100 in attendance from all quarters, and also on members securing certificates when purchasing tickets and having same properly vised in Toronto before returning.

Going tickets will be sold and certificates issued Jan. 18 to 23, and certificates will be honored for tickets returning until January 29.

Cost of berth New York to Toronto, \$2.50. Tickets can be purchased and certificates secured from any of the New York Central Lines offices, or if desired arrangements will be made to have some delivered.

If any prefer to leave in the morning, they may take the Empire Express, 8:30 a. m., arriving Toronto 9:05 p. m.

Eugene Dailedouze, Clarkson St. and Troy Ave., Brooklyn, N. Y.
C. W. Ward, Queens, I. N. Y.

LENOX HORTICULTURAL SOCIETY

The regular meeting of this society was held on January 5, President Heeremans in the chair. The entertainment committee submitted a program for the ensuing meetings. For February they have arranged the annual dinner for the 2d and carnation night for the 16th. Harry A. Bunyard gave an interesting talk; he offered a medal to the winner of the society's checker tournament, and a donation from A. T. Boddington for the fall show premium list.

A. J. Loveless was awarded a first-class certificate for *Cypripedium Lee-anum Adela*, a plant raised by him; also diploma for C. insigne *Sanderae*, C. insigne *Harefield Hall* and C. Lee-anum *Clinkaberryanum*. J. R. Shields of Dalton was awarded a cultural commendation certificate for some extra fine plants of *Begonia Gloire de Lorraine* and diploma for *Primula obconica*. GEORGE FOULSHAM, Sec'y.

ELBERON HORTICULTURAL SOCIETY.

The Elberon Horticultural Society, on Jan. 7, held a most interesting meeting and the principal feature was the elegant display of fine carnations consisting of fifteen vases, comprising *Enchantress*, *Lawson*, *Victory*, *Rob't Craig*, *Lady Bountiful*, *White Lawson*, and one large vase of *Winsor* from F. R. Pierson Co., which was admired by all. Mr. Bauer gave an interesting talk on the carnation of the past and present in a most able manner. The society extended Mr. Bauer a hearty vote of thanks. The following beautiful flowers and vegetables were exhibited: A. Bauer, carnation and celery; A. Greib, Marie Louise violets; James Kennedy, carnations; Wm. D. Robertson, *Centradenia florida* and mushrooms; Henry Wood, carnations and vegetables; Peter Murray, carnations; Fred Wm. Dettlinger, Princess of Wales violets.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The meeting on January 15 promises to be an unusually attractive one. It will be Ladies' Night and an attendance of over 300 members and ladies is expected. A stereopticon lecture on "Italian Gardens" by John K. M. L. Farquhar should prove very fascinating, and a treat no one should miss. The newly elected officers will be installed and an address from each is on the program. There will be interesting exhibits, music and refreshments and no efforts will be spared to make the opening meeting in 1907 the best in the club's history.

W. N. CRAIG, Sec.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The inaugural meeting for 1907 was held at Horticultural Hall, Boston, on Saturday, January 5. President Weld delivered his address and the various officials of the society presented their reports. It was announced that C. E. Richardson had resigned as superintendent of the building and that the trustees had appointed Secretary Rich to hold that position, also to act as assistant to the treasurer, Walter Hunnewell. The advisability of opening the library on Sundays or some stated evenings so that it might be a greater convenience for those who wish to consult it, was referred to a special committee consisting of the librarian and J. A. Pettigrew.

BOSTON HORTICULTURAL LECTURES.

The first in the annual winter course of free lectures on horticultural subjects given by the Massachusetts Horticultural Society will take place at Horticultural Hall, 300 Massachusetts avenue, Boston, on Saturday, January 12, at eleven o'clock.

The complete program is as follows: January 12, "The Iris and Its Culture," by J. Woodward Manning, Reading; January 19, "Peach-growing Possibilities in New England," by Adin A. Hixon, Worcester; January 26, "The Collecting of Orchids," by John E. Lager, Summit, N. J.; February 2, "The Renovation of an Old Orchard," by George T. Powell, New York; February 9, "The Home Vegetable Garden," by John W. Duncan, Jamaica Plain; February 16, "Certain Uses of the School Garden," by Miss Anne Withington, Boston; February 23, "Forestry from a Commercial Standpoint," by Prof. Frank Wm. Rane, Boston; March 2, "Planting for Streets and Waysides," by John A. Pettigrew, Boston; March 9, "Some Bacterial Diseases of Plants: Their Nature and Treatment," by Prof. H. H. Whetzel, Ithaca, N. Y. (the John Lewis Russell Lecture); March 30, "Gardens of Italy" (with stereopticon illustrations), by John K. M. L. Farquhar, Boston.

After the lecture opportunity is afforded for a full discussion of the subject and questions are welcomed. The object is to give all possible information concerning the topic under consideration, and the various subjects will be treated by well-known experts

in the several lines. All interested are invited to attend these lectures.

WM. P. RICH, Sec'y.

NORTH SHORE HORTICULTURAL SOCIETY.

The annual meeting of this society was held on the evening of January 4, at Manchester, Mass., when the following officers were elected: President, James McGregor; vice-president, Thomas Jack; treasurer, John Baker; secretary, James Salter; financial secretary, Herbert Shaw; executive committee, J. B. Dow, J. Desmond, W. F. Powers, C. A. Lincoln, F. C. Cole. A new feature was the election of William Tell as press agent. Among the visitors of the evening were D. Iliffe of Boston and H. Thiemann of Belchertown.

Reports showed a very successful year's work with a good balance in the treasury.

CLUB AND SOCIETY NOTES.

The ball of the Newport Horticultural Society was held on the evening of January 9.

The Horticultural Society of New York met on January 9th. An illustrated lecture was given by Dr. H. H. Rusby on The wild grains and nuts of the United States.

It is rumored that a horticultural society is likely to be formed at Pride's Crossing, Mass. There is a large amount of glass there and considerable interest in matters horticultural.

The Dutchess County Horticultural Society met in Poughkeepsie, N. Y., on December 26 and nominated officers for the ensuing year. George Foulsham of Lenox, Mass., read an interesting paper on The cultivation of orchids.

President Dunlop requests us to urge all growers of carnations to send generous exhibits to the Toronto convention which opens January 23. Canadian growers are interested to see the products of the leading growers and hybridizers and are awaking to the great importance of the opportunity to meet and discuss and form social and business alliances with the leading minds in the profession in the United States. Every inducement will be offered to visitors to make their participation pleasant and profitable.

THE LATE COUNT KERCHOVE DE DENTERGHEM.

An International Committee consisting of Belgian, German, Bavarian, English, French, Dutch, Swiss, Italian, and Russian horticulturists has now been definitely constituted for the purpose of erecting a monument to the memory of this illustrious lover of horticulture.

Subscriptions are being invited for the purpose and if any readers of HORTICULTURE desire to add their names to the list I shall be pleased to receive donations, as an authorized member of the International Committee and forward same to the proper authority.

C. HARMAN PAYNE.

141 Wellmeadow Rd., Catford, S. E., London, Eng.

MIDWINTER MEDITATIONS.

In your editorial of last week you mentioned the landscape class having been opened under the auspices of the Gardeners' and Florists' Club of Boston. I sincerely hope the young men in that class will take advantage of the lessons given. Even those in the commercial business ought to take in this study; it may become useful to them in after years. Every encouragement ought to be given the class. Some field days would, "when the spring opens", be beneficial and help along the knowledge gained under their instructor. I am sure every gardener who has charge of an estate of any size would be pleased to have them go over the same. The Hunnewell estate, for example, would be educational; there the work is so close to nature; rolling lawns have been laid and the shrubbery has been planted so that nature has been assisted. Set designs of shrubbery and straight paths that we sometimes see are a horrible example of some of our so-called landscape work. What would some of us have given to have had opportunity to acquire knowledge so valuable, when we were in our apprenticeship days? Burns probably didn't have training in the art of landscape work yet he gives us in the following one of the best descriptions of natural conditions, which is exquisite in its wording, and delightful in its phrases, and I think among the best ever written.

"Whyles owre the linn the burnie plays.

As through the glen it wimpl't;

Whyles round a rocky sear it strays;

Whyles in a wiel it dimpl't;

Whyles glitt'ring to the nightly rays

Wi' bickering, dancing dazzle

Whyles coo'it underneath the braes

Below the spreading hazel."

I see Job has started on a rampage again.

"He dips in gall unmix'd his eager pen,
And pours his vengeance in the burning line."

The King can do no wrong and I suppose he fancies himself in that class. He will feel proud to be mentioned in the same breath with royalty. In the first issue last year, of your New York contemporary, he started off on a rumpus because you mentioned that HORTICULTURE had "fairly leaped into the affections of the craft." He said then that it was "only fleas that leaped." He being a standard authority on that insect I dare not dispute him, but in his December 29 issue under the head of The New York Market it is given us that "orchids leap and bound." Gee Whiz! fleas again. I never saw or heard of an orchid doing these acrobatic stunts. When some private gardeners and also commercial men wish to say something that will puzzle you they stand off and throw out a few mouthfuls of orchid names then look to see what effect they have made. That's bad enough, but when the poor plants begin to leap I give it up.

I am sorry I can't go to the carnation convention; the trip will be interesting. Last year I attended it but will have to forego the pleasure this year. The poet's birthday comes this month as well as my own and the two celebrations in conjunction with the convention would be too strenuous. If the fates are right next August, I should like to go to Philadelphia. George Watson will not give us scrap-

ple, but I hope will have a haggis wi' trimmings prepared for himself, Birnie and me. If Job is there he might get an invitation to dine on his favorite dish and read some of his selected poems, but I hope he will leave his fleas at home. R. T. MCGORUM.

CALIFORNIA NOTES.

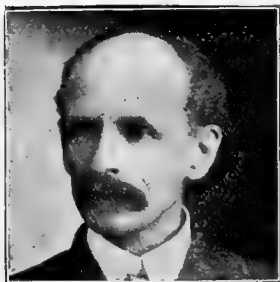
The exceeding good florists' Christmas trade reported last week lapped over and became identified in conjunction with the phenomenal New Year plant and flower traffic, the best New Year's business remembered by dealers longest established and the sunshiny weather that came the day after Christmas continued until after New Year's day.

Just in time to get a good share of the unprecedented patronage extended by flower and plant buyers these holidays, N. Peterson entered the arena, locating his handsome plant and floral depot at 324 Fillmore street. This is a new venture for this excellent young man, intimately known to the writer during his years of training as a grower in connection with the John H. Sievers Nursery Company, and the last four years of service as superintendent of this nursery.

This 4th day of January Fred L. Cleaves, former chief bookkeeper for the E. J. Bowen Seed Company, the oldest in the Pacific coast trade, was placed under arrest on three charges of felony embezzlement. Osgood Putnam, manager of the seed company, is the complaining witness. He states that the amount of money diverted by Cleaves will reach \$8,000. The alleged peculations extend over a period of two or more years. The accused is charged with falsifying books of the firm and to have forged drafts for various sums of money.

The holiday season just past was remarkable in San Francisco for its famine in Christmas trees. But eleven carloads came to town, while last year upward of forty carloads were disposed of. Saturday before Christmas in the wholesale market dealers were clamoring for trees and bidding against each other in their eagerness to secure them, running prices up on themselves. There are two reasons for the shortage. One is the scarcity of laborers in nearby country districts, and the other the timidity of shippers who feared the recuperating city would offer but a poor market place for Christmas trees. In past years this class of Santa Claus season greenery could be purchased at retail for from 50 cents to \$1 each. The wholesale selling prices this Christmas season ranged from \$1 to \$2.50 each, and the wholesalers were unable to fill 25 per cent. of their orders. Out at the Presidio, near Golden Gate, soldiers were stationed to guard their evergreen groves from Christmas tree seekers, and several arrests were made of the despoilers.

Our Cleveland correspondent states that a stroll through the various retail stores of that city reveals many interesting things; all are busy, with parties, decorations, etc., and they vie with one another in beautifying their places. All are unanimous in stating that, in spite of prevailing high prices, this year's business shows an increase of 50 per cent. over last year's at Christmas time.



CALDWELL, THE WOODSMAN,
Introducer of the Wild Smilax.

Wild Smilax, \$2.50 per case.

THE ONLY PLACE WHERE YOU CAN ALWAYS GET IT.

Long Needle Pines, \$1.00 per dozen. Palm Crowns, \$2.50 per dozen. Extra nice long-stemmed Palm Leaves, \$2.50 per 100. Magnolia, \$2.50 per case, 16 cubic feet. Sheet Moss, \$2.00 per sack. Grey Moss, \$2.00 per sack. Galax, \$1.00 per 1000.

Speed a Specialty.

Write for Catalogue.

Caldwell, the Woodsman Decorating Co., Inc., EVERGREEN, ALA.

NAPHTALIN AGAINST PLANT ENEMIES.

By F. Ledien, Botanical Garden, Dresden, Germany.

(Translated from "Mollers Deutsche Gartner Zeitung," by G. Bleicken.)

Naphtalin is now often used as insecticide rather to keep insects away than to kill them, for it has been demonstrated that insects do not alight, and furthermore will not lay their eggs, where a strong smell of naphthalin prevails.

For this reason I would at present only recommend experiments against such insects as have ability to move about quickly; for instance, the troublesome fly upon the mushroom beds, or the asparagus bug, the fly that produces the fine thread worm in hothouses which destroys so easily orchid seedlings and other germinating plants, the white azalea moth, etc.

In France they use naphtalin against the cockchafer. The mixture consists of 1000 kilo, naphtalin (2000 pounds), 8 hektoliter of sawdust (1 hektoliter equals nearly 100 quarts), and 500 kilo. of sulphate of lime (1000 pounds). This is enough for about six acres and costs in Europe about \$40. The strong odor prevails nearly fourteen days and is sufficient to keep away the female during the time of egg-laying. To be economical, one must, of course, use it at the exact time of the egg-laying of the cockchafer.

As we know, there exists a multitude of plant diseases, spread by flying insects, and often due to the insects themselves. Whoever will find an economical use of naphtalin against them should certainly achieve big results. Sander & Sons, of St. Albans, England, last summer used naphtalin against thrips in orchid houses and against everything else which crawls or flies. Mr. Sander said to me that "even the frogs tumble over."

Upon a portable stove a tin sheet is heated, and at a distance of five to ten steps a quantity of naphtalin is poured upon it and evaporated. Care must be taken not to have the least particle fall into the stove; also the work must be done very rapidly, as no human being can long endure the gas following the evaporation of the naphtalin; the house must be shut up for several hours afterwards. The exact portion of naphtalin to be used for a specified space remains to be found out by experiment; but as the

stuff is very cheap and the results obtained very lasting the expense need not deter free experimentation by anyone interested in the subject.

NEWS NOTES.

Eugene Haenlin will soon start in business in Oneida, N. Y., on Glenwood avenue.

Miss Eda Burn, Nashville, Tenn., has moved from Church St. to 107 Eighth Ave., N.

Murray Patterson has purchased the business of E. A. Feters, 275 Woodward Ave., Detroit, Mich.

The basement of the Music Hall Market, Boston, has been leased by T. F. Galvin Corp., for a storeroom.

W. A. Seger, Jr., is the manager of the Mullanphy Flower Co. doing business at 2439 N. Grand Ave., St. Louis.

W. D. Chase of Chase & Son, New London, O., drilled for water and in addition unearthed a fine vein of copper.

A petition has been presented to the three park boards of Chicago to increase the wages of gardeners to \$75 a month.

A. Schmidt withdraws from the Riverside Floral Co., with the opening of the new year, and will be located at his new houses in Riverside, Ill.

The bid of E. R. French for the erection of a horticultural building at the Exhibition Grounds, Toronto, Canada, has been accepted by the Board of Control; price \$90,000.

Benj. Hammond is sending out a neat pocket calendar which contains also an identification slip, weather signals, interest laws and other information briefly stated for the busy man.

Misses Julia and Susan Wood of Muskegon, Mich., have purchased the two greenhouses at Ben Mac Dhui, the country estate of Rev. Dowie, the self-styled Elijah. They will be moved to their fruit farm at Valley View.

The fifteenth announcement concerning garden pupils, for January, 1907, has been received from the Missouri Botanical Garden. Young men desirous of becoming gardeners should send for a copy. They will find it very interesting.

W. L. Rementer, late of Lansdowne, was in Philadelphia last week visiting his old friends. He is now in a good position and doing well. He intends soon to branch out again on his own account. Family differences were the main reason for giving up the old business.

OBITUARY.

George Gunderman, landscape gardener, died on January 7, in Pittsburgh, Pa., aged 88. One daughter survives him.

Alex. J. Park of South Chelmsford, Mass., died at his home on December 30. He is survived by a wife, two daughters and a son.

Frederick Vervaene, landscape gardener, died at the home of his daughter in Bridgeport, Conn., on December 30, at the age of 70.

Charles Barton, night watchman at Wessling's greenhouse, Minneapolis, Minn., died on December 26, from injuries received by the explosion of a lantern.

Miss Clara Eaton Cummings, Hunnell professor of cryptogamic botany at Wellesley College, died recently in Concord, N. H., after an illness of several months.

Jerome Bock, who for the past fifty years has been a nurseryman in Burlington, Ia., died in that city on December 22, at the age of 84. Three daughters and a son survive him.

Patrick Smith, well known as a landscape artist and gardener, died at his home in South Bethlehem, Pa., on December 28. Mr. Smith was born in County Fermanagh, Ireland, on March 7, 1833, and for thirty-seven years has been a resident of South Bethlehem.

INCORPORATED.

A new company, of which D. Fuerstenberg is president, Eugene Bernheimer secretary and H. C. Geiger treasurer, has been formed under the name of The Florex Gardens, and fifty acres of land purchased at North Wales, Pa., 22 miles from Philadelphia. They have found that the damp atmosphere from the Delaware river at Edgely, where the Floral Exchange greenhouses are located, is not conducive to the best growth of American Beauties, and they will grow them in this new location, where they expect to erect a house 150 feet wide in one span by 425 feet long, covering over one and a half acres, and stock it with 40,000 Beauties. The house will be of truss construction. Tea roses will still be grown at Edgely. George Samtman, late of Myers & Samtman, will be superintendent of the new place.

Aristocrat, Beautiful cerise, Leader of all carnations. Mar. 1st delivery—\$12.00 per 100. \$100.00 per 1000. **Red Riding Hood**, Scarlet, \$12.00 per 100. \$100.00 per 1000. **White Perfection** and **Daybreak Lawson**, \$6.00 per 100. \$50.00 per 1000 and many others ready now. There are no better cuttings than ours. Stock is clean and healthy. The quality is guaranteed. Order from reliable people and get what you want. There is nothing too good for the florist.

We grow nothing but the best varieties.

CHICAGO CARNATION CO. JOLIET, ILL.
A. T. PYFER, Manager.

SEED TRADE.

The New York Times' humorous account of the encounter between Hon. John Wesley Gaines and William Wolf Smith and their "squirrel-house" chase of one another in the revolving doors until both were exhausted has been going the rounds of the country for the past two weeks. Ridicule has ever been a most potent weapon, and many brazen free seed supporters now resort to explanations and apologies to justify their advocacy of it. In short, they are on the defensive, and how long they will hold out depends on the vigor of the attack. Mr. Smith, in a communication to the New York Tribune of the 5th inst., refers to a suggestion of Dr. Galloway of the Department of Agriculture, in which the doctor advocates a plan for spending the money which he seems to assume Congress is eager to appropriate. This shows that the doctor has seen a light, as a year ago he made himself ridiculous by telling the Agricultural Committee of the House how necessary the Seed Bureau was in guiding and regulating the seedsmen of the country. As may be supposed, the numerous "Professors" in the Department are all actively opposed to its discontinuance and are doing more or less lobby-

John Waterer & Sons, Ltd.

AMERICAN NURSERY

BAGSHOT, ENGLAND

have the finest stock of recognized **Hardy Rhododendrons, Azaleas, Andromedas**, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

John Waterer & Sons are the great exhibitors of Rhododendrons in London.

ing as occasion gives them opportunity.

Batchelor's Seed Store, Utica, N. Y., has been incorporated with a capital of \$5,000. The officers are: Charles F. Saul, Syracuse, N. Y., president; D. M. Ross, Syracuse, N. Y., secretary-treasurer, and the directors are Judge Wm. M. Ross, Syracuse, N. Y., Charles F. Saul, Syracuse, N. Y., and A. C. Langdon, Utica, N. Y. A new store has been rented and a prosperous and largely increased business may be safely predicted for the firm.

A Correction.

In seed trade notes in issue of December 29, page 722, referring to the "man not afraid of work," the lines should read, "and to prove it he lay down with his hoe in a weedy cornfield," etc. Also in the first column the word "where" instead of "when" should follow Indianapolis. In the last column "energetic" should be "energetically."

CATALOGUES RECEIVED.

Johnson Seed Company, Philadelphia Pa. Garden and Farm Manual for 1907. Has a striking cover in colors and a very extensive and interesting novelty list. The same firm also sent out a wholesale price list for winter and spring of 1906-07.

The Northampton Nurseries, Northampton, Mass., Thomas Foulds, superintendent. Descriptive catalogue of hardy ornamental shrubs and border plants.

In a case which was tried in 1898, a man bought an orchid at an auction for £21, with a warranty that it was a "Cattleya Acklandiae alba, only known plant." It did not flower for two years, and then produced not a white but a purple flower. The real value of the plant was 7-6. In an action for breach of warranty the judge found as a fact that if the orchid had been an actual alba it was at the time of sale worth £50; but that until it showed its real nature there was no probability that an orchid grower would give more than twenty guineas for it. Upon this finding it was held that the buyer was entitled to judgment for £50, and not merely the twenty guineas he had paid.

STATEMENT OF PLANT IMPORTS.

There were entered at the port of New York from December 18, 1906, to January 7, 1907, inclusive, the following plants, etc:

From Holland—H. F. Darrow, 4 cs. plants, 11 bales seed; McHutchison & Co., 16 cs. plants; P. Ouwerkerk, 21 cs. trees; Stumpp & Walter Co., 22 bales flower seed; J. M. Thorburn & Co., 105 bales sundry seeds; Vaughan's Seed Store, 2 cs. roots, 16 bales seeds; sundry forwarders, 71 cs. plants, 6 cs. roots; sundry consignees, 3 cs. plants, 1 cs. bulbs.

From Belgium—H. H. Berger & Co., 5 cs. bulbs; McHutchison & Co., 16 cs. plants; Chas. F. Meyer, 5 cs. bulbs; Stumpp & Walter Co., 3 cs. plants; Vaughan's Seed Store, 2 cs. plants, 8 cs. bulbs; sundry forwarders, 5 cs. plants, 5 cs. bulbs.

From France—C. C. Abel & Co., 17 pks. plants; H. F. Darrow, 22 cs. plants, 157 pks. seeds; McHutchison & Co., 70 cs. plants; sundry forwarders, 438 cs. plants.

From Germany—H. F. Darrow, 2 cs. trees, 23 pks. seed, 31 cs. lily of the valley; P. Henderson & Co., 5 pks. seed; W. Hagemann & Co., 45 cs. lily of the valley; McHutchison & Co., 10 cs. lily of the valley; Chas. F. Meyer, 46 cs. lily of the valley; W. Taat, 73 cs. lily of the valley; J. M. Thorburn & Co., 34 cs. lily of the valley, 26 pks. seed; Vaughan's Seed Store, 40 cs. lily of the valley; to order, 105 cs. lily of the valley; sundry forwarders, 134 cs. lily of the valley, 1 cs. roses, 3 cs. plants.

Steamer via Southampton: C. C. Abel & Co., 50 cs. plants; H. F. Darrow, 51 cs. seeds; McHutchison & Co., 43 cs. plants, 14 cs. trees; August Rolker's Sons, 55 cs. plants; Vaughan's Seed Store, 1 cs. vines; R. M. Ward & Co., 1 cs. roots; sundry forwarders, 13 cs. trees, 5 cs. plants; sundry consignees, 21 cs. trees.

The business of Anderson & Christenson, Short Hills, N. J., will hereafter be conducted by J. F. Anderson. It is understood that a little later Mr. Christensen will locate and grow palms and ferns for the trade.

FLOWER SEEDS

ASTER Queen of the Market

The best variety for early blooming

Trade Pkt. Oz.	
Dark Blue . . . . .	.20 .60
Light Blue . . . . .	.20 .60
Pink . . . . .	.20 .60
Scarlet . . . . .	.20 .60
White . . . . .	.20 .60
Mixed . . . . .	.20 .60

PHLOX Choice New Crop

Trade Pkt. Oz.	
Drummandi Dwarf Mixed40 1.25
Grandiflora Tall Mixed20 .50

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Selected from large well colored flowers which can be depended upon

Trade Pkt.	
Single Giants of California	
In mixture30 .50
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In mixture for pots30 .50
Single Grandiflora Fringed	
In mixture30 .50
Double Hybridized and Fringed	
In mixture 500 seeds, 75c., \$1.50 per 1000 seeds	

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ANNOUNCEMENT

We have opened a **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition to our regular wholesale **EVERGREENS** and **FLORISTS' SUPPLIES**

CONSIGNMENTS SOLICITED

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See our Greens Advertisement on page 705.

L. D. Telephone, Main 2618.

OUR CREDIT SYSTEM: ITS USES AND ABUSES.

By S. S. Skidelsky. Read before the Florists' Club of Philadelphia Jan. 1, 1907.

I deem it an honor as well as a privilege to address you upon a subject that, it seems to me, has never received the consideration it merits, either at the hands of our numerous florist clubs or of our national society.

It is no exaggeration to assert that there is no body of men, more honorable, more honest and straightforward than our florists. It is a noteworthy fact, one scarcely requiring any proof, that during the panic of 1893, when business conditions were most deplorable, when the stringency of the money market and the general stagnation and business depression were most appalling in their consequences, when the professional calamity howlers and the unscrupulous demagogues aired their theories to their hearts' content, thereby adding fresh oil to the already kindled fire of fear and discontent, when the so called "first laws" of self preservation began to assert themselves in a manner that brought disaster and financial ruin to many a business house, our florists, as a body, be it said to their everlasting glory and credit, put their shoulders to the wheel that much the harder, never thinking of joining the procession of bankrupts. It is an actual fact—and I challenge anybody to disprove it—that there were less failures, in proportion, among the florists, either compulsory or otherwise, than among any other body of business men. I could easily name a number of florists, who during these memorable dark days, saw fit to deprive themselves and their families of things generally considered as absolute necessities, in order to meet their obligations.

Men capable of such self sacrifice, men possessed of such moral stamina, of such business integrity and honesty of purpose need not hesitate inscribing their names upon the roll of honor. Perhaps Pope had some gardener in view when he said that "An honest man is the noblest work of God." Of course, there are exceptions, but of these later. That much for our honesty and business integrity. Can we claim as much for our business methods, or, to be more exact, for our credit system, as compared with that of other progressive business men? Hardly. While it is true that we are keeping pace with the times in many other respects, while we are advancing steadily and uninterruptedly along

lines of general progress, increasing our facilities, modernizing our stores and our greenhouses, improving our products, while we have been exchanging views and opinions as to the best methods of marketing our products, going even so far as to touch upon the ideal employer and employee, it has never occurred to us to consider seriously the means and ways and the best methods of modernizing our credit system. A question of momentous importance to our own interests, strange to say, seems to have escaped our attention. Viewed from whatever standpoint and whatever arguments we may bring to bear upon the subject, it is undeniably true that our credit system is in its primitive state, lacking those sound fundamental principles which are at the base of every sound financial or industrial institution. It is said of the late Marshall Field, the merchant prince of two generations, that his first step, at the very outset of his brilliant business career, was to establish a sound credit system. A rule from which he never deviated and which, perhaps more than any other factor, was responsible for and contributed so largely towards his colossal fortune, was to collect his outstanding accounts and to meet his own obligations upon maturity. What is true of Marshall Field, the merchant prince, holds equally true of John Smith, once upon a time the struggling market gardener, whom we now see making rapid strides along the highway of progress. The reason? Easily explained: "I pay as I go," says Mr. Smith, "and in order to be able to do this, I collect all my accounts promptly". Simple enough in itself, yet a rule of this sort seems to constitute the cornerstone, the very foundation of one's success.

"To pay as one goes" does not imply, however, spot cash transactions. Such a modus operandi is no longer tenable under our present business conditions. Nor is credit as such, to be despised or condemned on general principles. On the contrary, credit well regulated and judiciously used is a blessing and a privilege that can scarcely be overestimated. Were it not for this privilege, I venture to say, there are many among us to-day who should never have achieved the success they enjoy. How often do we hear of the man, who in years gone by had made his first start in life by building his first little greenhouse on a paltry few dollars, borrowed from either friend or shark, stocking it with a few geraniums and other truck, obtained on credit from some reputable establishment or other? If we trace

the history of the successful florist of to-day, we can see at a glance that credit has in a large measure contributed towards his success. I say "in a large measure" advisedly, because other qualifications, such as hard work, perseverance, will power and energy, were of equal importance as a means to his successful business career.

I reiterate—credit is a privilege that is not to be despised by any business man, no matter how conservative in his enterprises or how determined to steer clear of debt. Broadly speaking, it is credit, inspired by confidence and backed by enterprise, that is responsible for the remarkable development of our natural resources—the wonder of the world. It is credit inspired by confidence, that is accountable for the prosperity which we enjoy to-day. Credit has been the means of launching many a successful industry, giving employment to hundreds and thousands of men; credit has been the means of enabling many an individual to stem the tide of adversity and to rise to affluence and wealth. The struggling market gardener of a few years ago should have never perhaps become the successful grower of to-day if it were not for that blessed privilege—credit. I will go further and say that credit has been the means whereby most of our modern, mammoth greenhouse establishments have come into existence.

Credit, coupled with hard work, energy and business integrity, has made it possible for the enterprising man of to-day to achieve his success in much less time than it took the florist of a generation ago by the slow "pay as you go" process in its literal sense. We are progressing so to speak, in a geometrical ratio, by leaps and bounds, as it were, no longer satisfied to let "well enough alone", no longer content, like the immortal Micawber, to wait until something turns up. We must create our own opportunities and we are doing it to our heart's content, thanks to that blessed privilege—credit. If there is anything to be turned up we are generally inclined to take a hand in the turning process ourselves. We seem to realize that faint heart never won success; hence fear and hesitation no longer keep us in check. If we are determined to "get there" it is seldom indeed that we fail in our object.

But all good things have their limitations, and what is beneficial or wholesome in some cases often produces the contrary effect in others.

Assuming that credit, well regulated and judiciously used, is a privilege,

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We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for Samples.

E. A. BEAVEN, Evergreen, Ala.

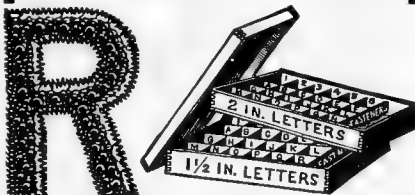
that the strictly honorable and enterprising business man cannot fail but make the most of, it becomes an absolute menace—and often to a business community at large—when placed at the disposal of the unscrupulous trickster. To illustrate my idea: I know of a florist in the West, doing a thriving business, who seems to take especial delight in defrauding his creditors. He buys everything in or out of sight, in Holland, Belgium or New Jersey, throwing his goods on the market at prices compared with which those of his legitimate competitors seem prohibitory. Here is a case of credit misapplied, the result proving detrimental not only to the man sustaining a direct loss, but to the florist in the immediate vicinity as well.

I will cite another case. There is a florist in one of the Middle States who makes it a practice to order every new seedling carnation in sight. Unlike the careful, ultra conservative grower who pays his bills and who, as a matter of course, wants to know something about the variety offered, the man I speak of orders indiscriminately on the principle of "something to gain and nothing to lose," never paying for the stock. The season following he offers rooted cuttings at a reduced price, underselling the very man he victimized, thus doing him a double injury. And yet, despite such instances (I could cite many others), despite the fact that tricksters, under the assumed names of florists, are encroaching upon the legitimate trade in a manner most injurious to our common interests, in our anxiety to outdo our competitors, to swell our volume of business, we are inclined to take chances, we fail to discriminate, to draw the line most rigorously, as it needs to be drawn, between those worthy of our confidence and those who should be blacklisted in letters so large and conspicuous, that he who runs may read.

(To be continued)

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6 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

Write for samples and prices in car load lots.

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The Wholesale Florist of New York
43 W. 28 St.,
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CUT FLOWER MARKET REPORTS

The market continues **BOSTON** fairly strong on roses but is rapidly weakening on carnations and violets. Bulbous stock is coming in fair quantities including the first crop of yellow narcissi. On the whole the supply and demand in the cut flower trade is pretty nearly balanced just now, one of the few times in the year when the wholesaler is able to clean out daily receipts without any conspicuous sacrifices.

Like a dream the holidays are now part of the **BUFFALO** great past. Everybody has had enough social enjoyment to be willing to enjoy simple life for a short time at least and now entertainments are only scattered sparingly through the calendar. The florists are having a slight recreation as the past week business was quiet. The inclement weather kept the shoppers home and made stock in some lines plentiful. Carnations came in in abundant supply and prices were somewhat at a decline. Select Teas still seem to be scarce and prices hold firm while ordinary enough to satisfy all. Violets are coming in good supply and fine quality, also selling better since prices lowered. Floral work was much in evidence and cleaned up a good portion of the surplus stock at the end of the week.

The usual phlegmatic **CHICAGO** condition which generally comes about after holidays was very much in evidence the past few days, and stock in all lines with exception of select quality roses was much in advance of demand. Beauties of select quality have held strong. Large numbers of this flower coming in show very poor foliage, owing no doubt to dark, soft weather which has existed almost continually for some weeks. New Year's trade, both shipping and local, was rather behind expectations, the cause being attributed to high prices which carried on from Christmas, although the continued scarcity of stock prevented surpluses from showing to any extent. Violets have been moved freely. Late receipts show an indication of a more plentiful supply of this flower coming on. Poinsettias are still to be seen in large numbers and with light call. Numerous local concerns have grown this flower in large quantities the past season, and as a result the same was rather overdone, although fancy stock was placed well for Christmas and New Year's and at good prices. The unfavorable weather which we have had for some days has put a damper on local retail business, and it is hoped that a good cold spell will come about and stimulate trade somewhat.

The prices of this **CLEVELAND** week on cut flowers remains the same as last week and Christmas. While the weather is much warmer, there is no sunlight, and the cut is very limited. However, the market is receiving some very fine Richmond, Chatenay, Bridesmaid and Bride roses, and good carnations.

The holidays are over; **COLUMBUS** but I am very glad to be able to say that a much firmer, and higher, steady grade of prices have continued since. As regards quality of stock, every one here, in common with the rest of the trade, have been at times much bothered to get even passable stock. There has been no sun in this vicinity since the first of December. I think some, say, fifty hours altogether will cover it. What we need now is some good, clear and bright winter weather, and trade will continue in fine volume. An especially active business, at good prices, was done by all on New Year's day.

Trade is keeping up very **DETROIT** brisk and everybody is steadily busy, there having been little opportunity given anyone thus far to get rested from the holiday rush. The supply of cut flowers is still far below the demand.

New Year's Day **INDIANAPOLIS** brought quite a little extra demand and by night the market was pretty well cleaned up. The demand for choice material for corsages was quite in evidence as well as decorations for balls and dinners. Since New Year's the market opened at a decidedly lower level of prices although roses are holding up well in view of the largely increased supply. Beauties are in fine quality and fairly good supply. The quality of Bride, Bridesmaid, Killarney and Richmond is excellent in spite of the fact that we have had no sun. Carnations are good but not in over supply. Violets have been in short supply since Christmas. Callas have become quite plentiful, but Harrisii are not abundant. Paper White narcissus and Roman hyacinths can be had in any quantity while tulips and daffodils are in limited supply. There is a fair call for green goods in bunches rather than strings.

The story of the cut-
NEW YORK flower business since the holidays is a bald and uninteresting narrative. As might have been expected, it has been dull and at times lifeless, but yet the accumulation of surplus material has not attained anything like the proportions of that of some previous like occasions, and quoted prices are more uniform and unyielding than the weak market conditions would seem to jus-

tify. The unseasonably warm weather of the past week has had an injurious effect on the quality of roses and carnations, but better conditions are now in sight. Bulbous stock begins now to obstruct the market as usual at this season.

Business last week **PHILADELPHIA** was pretty fair for an after-holiday rush. Prices continued reasonably firm and there was no serious glut in any one line. Beauties were, as anticipated, in shorter supply, but the demand also slackened so that prices hung about normal. Bridesmaids were a little off color, and fancy stock was in demand. Brides were plentiful and good. Two new things made their appearance in the rose market, namely, Myers & Samtman's new light pink which looks very much like an improved Testout and Leonard's cross between American Beauty and Liberty, which looks more like a red La France than anything else. It has only the tea fragrance and the usual pale silvery "turn-over" of La France. That is only superficial, of course. What this rose may do as a cropper and seller is still in the future. Both these novelties, we are assured, are good sellers—but only as novelties. The carnation market is well supplied with good flowers. The prices are about normal. Orchids are better and more plentiful than ever before, but the improved taste of the public keeps pace and no slump is in sight. White laelias, cattleyas and cypripediums are especially noticeable at present. Violets are still in rather short supply. Paper Whites and Roman hyacinths are going unusually well. Plumosa scarce; smilax too plentiful; poinsettia is plentiful and good yet, and the prices have improved; it will be a staple for weeks yet. Poinsettia has not been a money-maker except for the retailer this year. Mignonette is steadily improving. Jonquils and single daffodils are coming in in limited quantities. Freesias are extra good this year. Too much lily of the valley; much of it poor.

PERSONAL.

J. Fonta has been appointed superintendent of Audubon Park, New Orleans.

Visiting Boston this week: S. A. F. Secretary P. J. Hauswirth, Chicago; George C. Watson, Philadelphia; Martin Reukauf, Philadelphia.

Samuel Murray and Arthur Newell of Kansas City, Mo., are going to the City of Mexico next week to assist in making President Diaz a "Shriner" and to see something of Mexico's tropical scenery.

JOHN YOUNG**WHOLESALE FLORIST**Finest American Beauties and
Carnations

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FORD BROTHERS

48 West 28th Street, NEW YORK

FINE ROSES FANCY CARNATIONS

A Full Line of All CUT FLOWERS

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COMMISSION
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Ready to Talk Business with a Good Lily of the Valley and Bulb Grower**J. K. ALLEN**106 W. 28 St.,
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MADISON SQ.**NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY**

	Last Half of Week ending Jan. 5 1907	First Half of Week beginning Jan. 7 1907		Last Half of Week ending Jan. 5 1907	First Half of Week beginning Jan. 7 1907
Roses			Carnations, Fancy	4.00 to 8.00	4.00 to 8.00
Am. Beauty, fan and sp.	40.00 to 75.00	40.00 to 75.00	Carnations, Ordinary	2.00 to 3.00	3.00 to 3.00
“ extra	20.00 to 30.00	20.00 to 30.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
“ No. 1	10.00 to 15.00	10.00 to 15.00	Violets	.50 to 1.00	.50 to 1.00
“ Lower grades	2.00 to 6.00	2.00 to 6.00	Lilies, Callas	10.00 to 15.00	10.00 to 15.00
Bride, 'Maid, Golden Gate, fan & sp	10.00 to 15.00	10.00 to 15.00	Gardenias	35.00 to 50.00	35.00 to 50.00
“ “ “ No. 1 & Ex	5.00 to 10.00	5.00 to 10.00	Lily of the Valley	2.00 to 3.00	2.00 to 3.00
“ “ “ low grades	2.00 to 3.00	2.00 to 3.00	Mignonette	2.00 to 8.00	2.00 to 8.00
Liberty, Richmond, fancy & special	12.00 to 25.00	12.00 to 25.00	Paper White, Roman Hy.	1.00 to 2.00	1.00 to 2.00
“ ordinary	3.00 to 10.00	3.00 to 10.00	Adiantum	.50 to .75	.50 to .75
Chatenay fancy and special	8.00 to 15.00	8.00 to 15.00	Smilax	10.00 to 15.00	10.00 to 15.00
“ ordinary	3.00 to 6.00	3.00 to 6.00	Asparagus Plumosus, strings	25.00 to 35.00	25.00 to 35.00
Killarney, fancy and special	8.00 to 15.00	8.00 to 15.00	“ & Sprenger, bunches	10.00 to 25.00	10.00 to 25.00
“ ordinary	3.00 to 6.00	3.00 to 6.00			

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GREEN GALAX \$1.25 per 1000

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Discount on Larger Orders

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Give us a trial. We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

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DAGGER AND FANCY FERNS.

Fresh Northern, \$1.00 per 1000.

LYRATA, the best substitute for Smilax, \$7.00 per case.

Headquarters for all FLORISTS' SUPPLIES. Wire Designs,

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Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 10 Province St., Boston, Mass.

L. D. Telephone, Main, 2613.

WHOLESALE FLOWER MARKETS.

PER 100.
TO DEALERS ONLY.

	CINCINNATI January 8	DETROIT December 14	BUFFALO January 7	PITTSBURG January 8
ROSES				
Am. Beauty, Fan. and Sp.	60.00 to 75.00	100.00 to 150.00	80.00 to 100.00	50.00 to 60.00
Extra	40.00 to 50.00	90.00 to 100.00	40.00 to 50.00	30.00 to 40.00
No. 1	30.00 to 35.00	75.00 to 80.00	35.00 to 40.00	15.00 to 20.00
Lower grade	8.00 to 15.00	60.00 to 70.00	8.00 to 12.00	5.00 to 8.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	12.00 to 18.00	1.00 to 18.00	1.00 to 15.00
" " " " " " " " " " " "	4.00 to 5.00	1.00 to 1.00	1.00 to 1.00	1.00 to 1.00
" " " " " " " " " " " "	1.00 to 1.00	1.00 to 1.00	1.00 to 1.00	1.00 to 1.00
Liberty, Richmond, Fan. & Sp.	1.00 to 8.00	1.00 to 18.00	1.00 to 15.00	1.00 to 20.00
Ordinary	4.00 to 6.00	6.00 to 10.00	5.00 to 10.00	8.00 to 15.00
Chatenay, Fancy	1.00 to 8.00	12.00 to 18.00	15.00 to 18.00	18.00 to 20.00
Ordinary	4.00 to 6.00	6.00 to 10.00	5.00 to 10.00	8.00 to 15.00
Killarney, Fan. & Sp.	1.00 to 12.00	12.00 to 18.00	12.00 to 15.00	15.00 to 20.00
Ordinary	1.00 to 6.00	6.00 to 10.00	6.00 to 12.00	8.00 to 15.00
CARNATIONS				
Fancy	1.00 to 4.00	1.00 to 8.00	5.00 to 6.00	3.00 to 6.00
Ordinary	1.00 to 2.00	3.00 to 4.00	2.00 to 4.00	1.00 to 2.00
MISCELLANEOUS				
Cattleyas	12.00 to 15.00	15.00 to 20.00	6.00 to 20.00	15.00 to 20.00
Lilies, Callas	7.50 to 2.00	2.00 to 2.50	1.00 to 1.50	1.00 to 1.50
Violets	4.00 to 4.00	4.00 to 4.00	4.00 to 4.00	4.00 to 4.00
Gardenias	3.00 to 4.00	4.00 to 5.00	5.00 to 5.00	3.00 to 4.00
Lily of the Valley	3.00 to 4.00	4.00 to 8.00	3.00 to 6.00	3.00 to 8.00
Mignonette	2.00 to 3.00	4.00 to 2.50	3.50 to 3.00	1.00 to 1.00
Paper White, Roman Hy.	1.00 to 1.00	1.50 to 1.50	1.00 to 1.00	1.00 to 1.00
Adiantum	1.00 to 1.00	1.50 to 1.50	1.00 to 1.00	1.00 to 1.00
Smilax	1.00 to 1.00	1.50 to 1.50	1.00 to 1.00	1.00 to 1.00
Asparagus Plumosus, strings	40.00 to 50.00	50.00 to 75.00	40.00 to 50.00	30.00 to 50.00
" " & Sprenger, bunches	25.00 to 25.00	20.00 to 30.00	25.00 to 30.00	30.00 to 50.00

GALAX LEAVES

New crop; fresh from the patch, prices as follows:

Bronze and Green Galax Leaves, \$0.50 per 1000

Fancy and Dagger Ferns, 1.00 per 1000

Green Leucothoe Sprays, 2.50 per 1000

Rhododendron Sprays, 5.00 per 1000

Kalmia or Mountain Laurel, 3.00 per 1000

Also Rhododendron Plants which will grow,

10 to 15 inches, 10c. each; 20 to 25 inches, 15c.

30 to 40 inches, 25c. 50 to 60 inches, 40c.

Discounts on large orders. Fourteen years' ex-

perience enables me to guarantee perfect

satisfaction. 250 customers now in U.S. Send

cash with first order.

J. N. PRITCHARD, Elk Park, N. C.

Look through the Buyers' Directory

and Ready Reference Guide. You

will find some good offers there also.

For the month of January we allow on

WIRE FRAMES 25% — WAX DESIGNS 15%

Keep your "I" on the enterprising

FLORIST SUPPLY HOUSE

J. STERN & CO.,

125 N. 10th St., above Arch,

PHILADELPHIA, PA.

In ordering goods please add "I saw

it in HORTICULTURE."

The KERVAN CO. 20 WEST

27th ST., N. Y.

WHOLESALE DEALERS

Fresh cut Palmetto & Cypas Palm Leaves, Galax, Leu-

cothoe, Ferns and Mosses. All Decorating Evergreen

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R. J. Dysart, 28 State St., Boston.
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ADIANTUMS.

A. Mitting, Santa Cruz, Cal.
Adiantum Pedatum.

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

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ASPARAGUS.

Albert M. Herr, Lancaster, Pa.
Asparagus Robustus.
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Asparagus plumosus nanus and Sprenger, 2 1/2-in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus Plumosa, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erle Floral Co., Erie, Pa., or Wm. F. Kastling, 385 Ellicott St., Buffalo, N. Y.

Asparagus Crawshawii, a new, beautiful asparagus. Seedlings, \$3.00 100; \$25.00 1000; transplanted seedlings, \$5.00 100; \$40.00 1000. Jas. Crawshaw, 403 Plainfield, Providence, R. I.

AZALEAS.

For Forcing.
Henry A. Dreer, Philadelphia.

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Bulbs, Cannas, Dahlias, Gladioli, Oxalis, Madeira and Cinnamon vines, Iris, Peonies, Finest stock. C. Betscher, Canal Dover, Ohio.

CANNAS.

Cannas, very fine list. Send list of needs. C. Betscher, Canal Dover, Ohio.

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Carnations Rooted Cuttings.
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Carnations, All rooted cuttings. These prices for January delivery. Per 1000:

Enchantress\$50 B. Market\$15
Bountiful 25 Lawson 15
Cardinal 25 Harlowarden 15
100 at same rate. Cash with order.

Smith & Gannett, Geneva, N. Y.

We can furnish several thousand unrooted cuttings of Fair Maid and Queen Louise for immediate delivery at \$6.00 and \$5.00 per thousand. Cohanzie Carnation Greenhouses, New London, Conn.

Healthy rooted carnation cuttings. Queen Louise, Ellil, Gomez, Norway, Boston Market, \$9.00 per 1000. Melody, \$5.00 per 100. Red Lawson, \$15.00 per 100. Lawson, Harlowarden, Mrs. Nelson, \$12.50 per 1000. White Cloud unrooted, \$4.00 per 1000. Wm. Ehmann, Corfu, N. Y.

CHRYSANTHEMUMS.

Eggeling Floral Co., 1653 S. Grand Ave., St. Louis, Mo.
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Chrysanthemums. Jeanne Nonin, C. Touset, Mrs. Brice, Roi d'Italie, Fred Lemon, Merza, Cobbold, M. Ware, Oct. Sunshine, Beauty of Sussex, \$2.00 per 100. Glory Pacific, Kalb, Monrovia, Polly Rose, Alliance, Mrs. Robinson, J. Shrimpton, Bride, Bonafant, Halliday, Duckham, Cullingford, Mrs. Chamberlain, Arline, Emendilla, W. Bonafant, Princess, M. Friend, Nellie Pockett, Lincoln, W. Jones, G. Wedding, Ben Wells, Yellow Eaton, Enguehard, Mrs. Weeks, Appleton, G. Trophy, Florence Teal, A. Balfour, Intensity, Mme. Perrin, \$1.50 per 100; \$12.50 per 1000. Wm. Ehmann, Corfu, N. Y.

CHRYSANTHEMUMS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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?

Is Your Name In The Above
List? If Not, Why Not?

?

DRACAENAS.

Dracaena terminalis from bench, fine \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

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FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

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Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.

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- Young & Nugent, 42 W. 28 St., New York.
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- Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.
- Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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- P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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- William J. Smyth, Michigan Av. & 31st St., Chicago.
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- Wm. H. Rock Flower Co., Kansas City, Mo.
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Peonies, 1200 sorts. Greatest list anywhere. C. Betscher, Canal Dover, Ohio.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIVET.

250,000 California privet, all sizes. Send for trade list. Valdesian Nurseries, Bostic, N. C.

PRUNING SHEARS.

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Rose Aurora.

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Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1/4-in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to the late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass.

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Joseph Breck & Sons,
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J. M. Thorburn & Co.,

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Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

SHEEP MANURE.

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Wizard Brand.

SHEET MOSS.

E. A. Reaven, Evergreen, Ala.
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SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash H. R. Akers, Chatsworth, N. J.

SPIRAEA.

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Chicago.

The Chicago Lifter.

VIOLETS.

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WILD SMILAX.

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Caldwell the Woodsman Decorating Co.,
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WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue.

Holton & Hunkel Co., Milwaukee, Wis.

The "Just Right" kind. Send for price

list. Frank W. Ball, 31 East Third Street,

Cincinnati, O.

WHOLESALE FLORISTS.**Boston.**

N. F. McCarthy & Co., 84 Hawley St.,
Boston.

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J. S. Fenrich, 110 W. 28th St., New York.

Ford Bros., 48 West 28th St., New York.

H. E. Froment, 57 W. 28th St., New York.

Alex. J. Guttman, 43 West 28th St.

E. C. Horan, 55 West 28th St., New York.

Philip F. Kessler, 55 W. 26th St., New York.

A. H. Langjahr, 55 W. 28th St., New York.

James McManus, 42 W. 28th St., New York.

Chas. Millang, 50 West 29th St., New York.

John I. Raynor, 49 W. 28th St., New York.

W. F. Sheridan, 39 W. 23th St., New York.

Traendly & Schenck, 44 W. 28th St., New

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A. L. Young & Co., 54 W. 28th St., N. Y.

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SUPERB DOUBLE PETUNIA SEED; QUARTERLY WHOLESALE LIST.

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WHITE LILACS, CUT BLOOMS.

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CRAFT AND CRAFTSMAN.

An address before the Gardeners' and Florists' Club of Boston, by W. H. Wyman.

(Continued from Page 733.)

The possibilities that lie in a block of marble are seen to those only who have eyes to see. In that block of marble the sculptor sees, in dim outline, a form; it grows more beautiful as he meditates, until, at last, a creation of graceful mould and of angelic expression stands visible to the eye, for the liberation of which he devotes his energies. Days lengthen into months and months into years; but he is unmindful of them so intent is he on his work. No; that is not the word,—it is work, but that does not express it. It is rather the giving expression of himself—it is a travailing of soul, a mental birth. The product of his genius is almost a thing of life. It was in the block of marble, was it? Yes and no. To the one man, yes, to the other man, no. More exactly, it was in the mind of the one, it was not in the mind of the other, until the one had revealed it to the other.

So it must be in every field of human activity—the boy, yes, the man, must see visions and dream dreams, always with his eyes open. The merchant lived in that poor boy we saw some years ago back there on the farm. We did not see him—the merchant—but the boy we saw was looking him squarely in the face all the while. We saw the boy,—it was Abe, or Jim or Dan—but Abe saw Abraham Lincoln (and as a young man he confessed as much) striking the shackles from million of slaves. Jim saw James Garfield meeting the unexpected in whatever turn it took; the spirit was living within him waiting for the occasion. The occasion came and he was there, because Jim was acquainted with James and knew he could be depended upon in an emergency. The old saying is quite true, "the boy is father of the man". The principle holds good in every craft or avocation in life, and it holds good because it is true, and only because it is true.

The man who would succeed in this department of human activity must understand well the external elements with which he has to deal; he must see the possibilities vested in a tiny seed—the possibilities in a stretch of wild unbroken landscape or a mound of broken rocks. The gardener must have the imagination of the poet, the fine discrimination of the artist. He must not only produce the material, but he must see that the material is arranged so that there shall be no "war among the roses"—no clashing among the flowers. We have all been in gardens where there was a profusion of beautiful flowers, looked at individually, and yet there was, in reality, little if anything, to admire. On the other hand we have visited gardens where there were only a limited number of plants, of very common sorts, and we were enchanted by them; common everyday plants and flowers—but so beautiful! They all seemed made for each other, and were so arranged that they were a harmonious feature of the landscape, each one doing duty to the whole.

We have not far to look for the reason for all this. It is that which in one woman makes her never well-dressed even if she is clothed in silks

and adorned with diamonds. It is that which makes another woman well-dressed even if the fabric grew in the fields of Alabama, and was woven in Lawrence, and unadorned with pearls. On this line we might continue indefinitely; but it is not necessary. Is it necessary for me to say that the shepherd must love his sheep—the gunner must love his gun and the plantsman must love his plants. Let us now turn from the work to the workman himself. The sordid question of dollars and cents concerns all of us; for food, shelter and raiment we must have. But the man who never gets above and beyond the money standpoint of his calling never gets far toward success in the highest degree.

It is the man who becomes engrossed in his work and thinks not of the pay, who is doubly paid. The genius in his craft is the man who has so much in his soul seeking expression that, work hard as he may, he never quite catches up with himself. There is more yet seeking expression and he rejoices at every new day for the opportunity of working out that which is pleading for expression from within. A sense of duty well done is in itself a rich reward, and he who does his full duty is sure of substantial remuneration. Elbert Hubbard says "Folks who never do any more than they get paid for, never get paid for any more than they do."

Look over the whole catalogue of trades and professions and tell me which one has a broader range of subjects than has your calling. Contrast your breadth of vision with that of those who toil in our factories. The factory operative stands before a machine year after year doing the same thing, no better, no faster, than he could do it at the end of the first six months of his service there. His movements are almost as automatic as are those of the machine, of which he seems to be almost a part. Dangers are so many that his mind must be constantly on his work. He cannot think of other things. Not so with you—your work invites thought deep, long-continued and profound. The book of nature always open before us invites our thought. And the more thoroughly we read out the thought of nature, the more nearly right we are doing our work. But it must not be forgotten that nature reveals no secrets to those who think they know it all.

Victory gives fresh zest to the victor on every field of conflict. And so as thoughtful men advance they find no day hanging heavily on their hands—they are borne on by a mighty rushing tide of events. The days are all too short—the seasons pass too quickly. The man had been toiling but he knew it not, for he had not watched the hands on the dial, but nature for her secrets—thinking after God his thoughts. Such craftsmen may grow infirm of body because of advancing years; but never does the man grow old. He grows rich and reverent and profound. Hundreds of such noblemen we have seen. No priest at the altar deals with anything purer than the flowers—the handiwork of God—and he who has part in their creation should feel the dignity of his calling so that none should be found more childlike in straight-forward simplicity than he. We must not forget that

there are some exceptions, and in some instances, as in Latin, sometimes we thought the exceptions were more general than the rules. How out of place a man of low designs and unbridled passions in a bower of fragrant flowers. How a man of coarse unwholesome speech disfigures the landscape. The true man sees purity in the dew-drops, hears music in the wind as it plays in the branches above his head, and breathes the fragrance of the flowers.

The craft elevates, refines and ennobles the craftsman in this your chosen field; it cannot be otherwise. Let me be not misunderstood; I am speaking of the real craftsman—the man inside the clothes we see—whom the world can never see only as he is revealed by the work which he does. It may not be true of all gardeners or of all florists that they are pure in character, chaste in speech and temperate in habit, but it is true of many of them. They are among nature's noblemen. Not all who paint pictures are artists; not all who build houses are architects; not all who play on musical instruments are musicians; but those who paint pictures that survive are artists; those who design massive structures, which combine strength, grace, and beauty for the happiness and convenience of man, are architects; and those who compel the organ to give forth such melodious sounds as to convulse our natures and make the best there is in us war with the worst there is in us, are musicians. What great work of art can the world produce that was inspired by the sordid stuff we call dollars? Not one. The inspiration came from a higher plane. When once a man becomes absorbed in some great and noble undertaking, he wakes to a realization of the fact that he is experiencing the happiest moment of his life. Business is not all sordid and mean. It is what we make it. Your craft is, in character, what you make it. The highest ideal known to man is service. He who serves his fellows most faithfully is himself most faithfully served. He that sows sparingly reaps sparingly.

And in closing let us look for a brief moment at the scope of your labors. You may possibly have moments when you take a narrow view of the worth of your calling. You may see the flowers wither and decay, the vegetables eaten and gone, and you may say there is no permanent value as a result of your toil. But if that were all, it was no mean thing. The flowers served their purpose, they gladdened human hearts, they brought sunshine into many a sick chamber. The vegetables you produced gave nourishment and health to busy workers of hand and brain. Their work could not have been done as well but for your work. This is the near view of the situation. There is a broader outlook. Coming generations will eat fruit from the trees your hands have planted long years after you are gone. Thousands and tens of thousands of earth's weary sons and daughters will sit beneath the strong arms of the oaks and the elms and the maples that you have planted and refresh their wearied bodies. Happy child life will voice a psalm of praise to their unknown benefactor.

Soon your name may be forgotten

POT MAKERS FOR 140 YEARS

A. H. HEWS & Co. Inc.

CAMBRIDGE, MASS.
KINDLY EVERWARE FLORISTS

but your work will long remain. In a measure it will be true of you as it was of those who fell at Gettysburg, whose great work was summed up in a few well-chosen words by President Lincoln, "In a large sense we cannot dedicate, we cannot consecrate, we cannot hallow this ground. The brave men living and dead, who struggled here, have consecrated it far above our power to add or detract. The world will little note nor long remember what we say here, but it can never forget what they did here."

But this is not all, trees, like fruits and flowers, have their day. The end comes sometime. The fashion of this world changes. Is there nothing more permanent that you have done? Yes, for many of you have changed the very face of nature. You have taken a rough unsightly stretch of country and converted it into a veritable paradise of beauty. With pick and shovel, instead of the palette and brush you have wrought out a picture, a dream of beauty, which will be more and more highly prized by men and women for a thousand generations. But does not this mark the end of the sphere of influence of your craft? By no means. The great soul of the artist lives forever in the souls of men inspired by

his touch. Shakespeare said, "The evil men do lives after them, while the good is oft interred with their bones," and as truthfully can it be said of great and good men in every walk in life that the good men do lives after them. Your life and mine in the final analysis will be worth just what good we can do, the service we can render in our time. This is the great goal of life, the prize to be coveted, the end to be sought.

LIST OF PATENTS.

Issued December 25, 1906.

- 839,423. Trellis. James Richardson, Buckhannon, W. Va., assignor of one-half to C. I. Farnsworth, Buckhannon, W. Va.
- 839,763. Draft Equalizer. William A. Hutchens, Eldora, Iowa.
- 839,308. Weeding Attachment for Corn Cultivators. Henry R. Nelson, Walnut Grove, Minn.
- 839,310. Weeder-Tooth. Henry R. Nelson, Walnut Grove, Minn.
- 839,472. Corn Harvester. James E. Goodhue, St. Charles, Ill.
- 839,532. Seeding Attachment for Plows. Frank P. Wilhelm, Potosi, Wis.
- 839,122. Sulky Plow. Irene Desy, Lewiston, Mont., assignor of one-fourth to Daniel M. Crowley and one-fourth to George M. Stone, Lewiston, Mont.

Issued January 1, 1907.

- 839,800. Folding Harrow. Francis Adix, Boone, Iowa.
- 839,801. Rider Attachment for Harrows. Francis Adix, Boone, Iowa.
- 839,810. Weed Exterminator. Edward F. Cameron, Helena, Mont.
- 839,811. Hoze Nozzle. Frank J. Christman, Syracuse, N. Y., assignor to John R. Clancy, Syracuse, N. Y.
- 839,887. Harrow. Eugene H. Peters, Benton Harbor, Mich.
- 839,968. Frame Construction for Side Delivery Rakes. Herbert B. Sperry, Springfield, Ohio, assignor to International Harvester Co., a Corporation of New Jersey.
- 840,229. Thinner. William B. Moss, Lancaster, Ky.
- 839,274. Seed-Planter and Fertilizer Distributor. Flem H. Weaver, Griffin, Ga., assignor of one-third to Ernest E. Wolcott, one-third to Henry H. Geiger, and one-third to Thomas J. Brooks, Griffin, Ga.
- 840,320. Side Delivery Buncher. Nelson G. Hanna, Center Township, Howard County, Ind., assignor of three-eighths to Virgil H. Lockwood, Indianapolis, Ind.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

AUCTION SALE

The undersigned will sell on Thursday, January 17th, 1907, at 10.30 o'clock in the forenoon.

Owing to a change from horse to electric power, I have concluded to dispose of the entire contents of my stable consisting of the following stock and plant, to wit:

Ten business horses; 8 delivery wagons; 2 double sets of harness; 6 single sets of harness; 2 sets of road harness; 1 fast trotting mare, record 2:14 1-4; 1 bay road mare, Standard Bred; 1 pair of spotted ponies, wagon and harness; 1 brown saddle horse; 3 surreys; 1 natural wood trap; 3 runabouts; 1 depot wagon, new sulky built by Toomey; 1 Brewster brougham.

All carriages have rubber tires. A lot of wagon and stable blankets, halters and stable utensils, etc. The above mentioned stock and plant will be sold at public auction at the stable in the rear of No. 250 Fifth Avenue, known as No. 3 West 28th Street, Borough of Manhattan, New York City. By order of CHARLES MILL-ANG, (Florist).

SAMUEL NEWITTER, Auctioneer

280 Broadway,

Manhattan Borough, NEW YORK CITY

FOR SALE—Greenhouse Pipe

4-in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

FOR SALE—One thousand Lorillard tomato plants ready to ship in four inch pots at \$3.00 a hundred. Plants are O. K. for an early Spring crop. Cash please. D. B. Kroninger, Etnaus, Pa.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SEEDSMEN, we have an opening for order and counter hands who are experienced. Wm. Elliott & Sons, 201 Fulton St., New York.

SITUATION WANTED by single man 26 years old, experience in out door gardening, and thorough knowledge of laying out large estates and general landscape work. Address E. Jauger, care W. Jauger, 657 E. 156 Street, New York City.

SITUATION WANTED—Private place preferred as head gardener. Married; two children; good reference. A. N., care R. & J. Farquhar Co., Boston.

WANTED An assistant for a private place, one with a good general knowledge of greenhouse work, and an intelligent worker. State nationality, age, etc. Wages \$75.00 per month. Address in first instance Nox, HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—An all round greenhouse man who understands growing carnations and bedding stock, etc. Give references, wages required and full particulars. Married man preferred. Address Chas. H. Green, Spencer, Mass.

WANTED—200 Ulrich Brunner plants ready to put into house at once. State price and particulars. C. G., care HORTICULTURE, 9th and Market Sts., Phila.

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STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 1/4	" " \$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/2	" " 5.25	60 8 " "	3.00
1500 2 3/4	" " 6.00	HAND MADE	
1000 3	" " 5.00		
800 3 1/2	" " 5.80	48 9 in. pots in crate	\$3.60
500 4	" " 4.50	48 10 " "	4.80
320 5	" " 4.51	24 11 " "	3.60
144 6	" " .16	24 12 " "	4.80
		12 14 " "	4.80
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Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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Three florists' open wagons, three florists' top wagons and three sets of harnesses. Can be seen at 1 West 28 St., New York.

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THE ORIGINAL AND GENUINE
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STRONGEST AND MOST UNIFORM

PRICE 60¢
PER BOX OF 12
LONG SHEETS

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FOR SPRAYING OR VAPORIZING

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CYPRESS SASH BARS
32 feet or longer
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ERECTED AND EQUIPPED COMPLETE IF DESIRED

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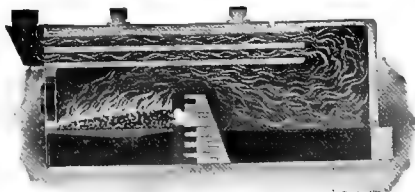
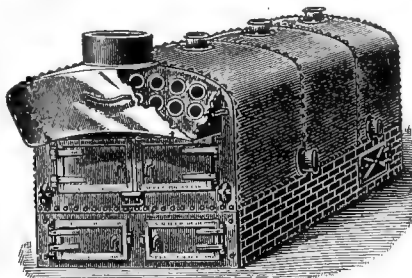
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Cuts from both sides of limb and does not bruise the bark.
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Greenhouse Boiler,
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Boilers made of Steel Boiler Plate; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

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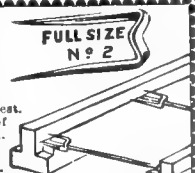
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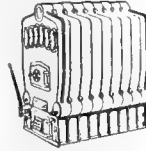
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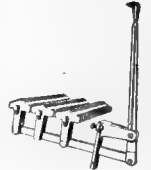
We don't make any such ridiculous claim for our "Burnham" Boiler; we know it will wear out, in parts, and when those parts do wear out you'll find us in business ready to supply them. Ever tried to find parts of a thing



The BURNHAM

after the manufacturer has gone out of business? Then you know what buying of an old established firm guarantees to you.

You know the man who looks ahead is the man who gets ahead, so buy the "Burnham" — and buy it now.



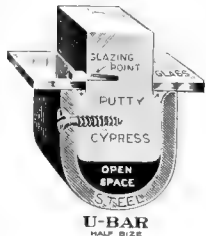
ITS GRATE

LORD & BURNHAM CO.

Greenhouse Designers and Manufacturers

1133 BROADWAY, cor. 26th Street, N. Y.

BOSTON Branch: 819 Tremont Building



DAVID McFarlane, Gardener to Mrs. H. Walter Webb at Scarborough, N. Y., took the trouble to write us his point of view on U-Bar houses — here is part of it: "The hundred foot house erected by you last March is a great success, both for utility and from an architectural point of view."

U-Bar reasons are shown in our new catalog. **Pierson U-Bar Company, Designers and Builders U-Bar Greenhouses,** Metropolitan Building, Fourth Avenue and 23rd Street, New York.



HORTICULTURE

Vol. V.

JANUARY 19, 1907

No. 3



CITY HALL, TORONTO.

Convention and Exhibition Hall of the American Carnation Society, January 23, 24, 25, 1907.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

... OUR ... CARNATION NOVELTIES —For 1907—

Winsor, White Enchantress and Helen M. Gould

ONE way to judge carnations is to see them on the exhibition tables. A better and more convincing way is to see them growing; therefore we cordially invite all carnation growers to visit us and judge for themselves regarding the superiority of the above-named sorts.

Our carnation houses are at **Scarborough-on-Hudson**, (not Tarrytown). Friends who desire to visit us can take the N. Y. C. & H. R. R. R. from New York. Trains leave there every half hour. Scarborough is the first station north of Tarrytown. Our grounds adjoin the station, and the greenhouses are about five minutes' walk from the station.

We are growing **25,000 plants of Winsor** for cut flowers, alone, for the New York market this season, which shows the faith we have in it. This will also enable visitors to see it growing in quantity, and besides that, will give us enough plants to get a great abundance of fine, healthy cuttings without over-propagating. We have already booked a large quantity among the large growers, and anticipate for this variety the largest sale of any new carnation that has ever been distributed, as large growers who have seen it are enthusiastic in regard to its value. Those who have seen it have immediately placed large orders for it, so we recommend those who have not ordered to place order without delay, so as to insure early delivery.

For full description of these three valuable novelties, see our wholesale price list. Of course, we shall have all of these varieties on exhibition at Toronto, where they can be seen, and where they will speak for themselves.

Wholesale Prices Rooted Cuttings Spring, 1907

WINSOR.—Soft silvery pink. The best color, best keeper, best shipper, best seller—best every way. \$12.00 per 100; \$100.00 per 1000.

WHITE ENCHANTRESS.—Has the large size, long stem, productive habit of Enchantress, but is pure white. \$12.00 per 100; \$100.00 per 1000.

HELEN M. GOULD.—A beautiful sport of Enchantress. Ground color lovely shade of silvery pink, with very fine pencilings of carmine, making an exceedingly exquisite combination. While on close observation this variety is variegated, the general effect is one beautiful tone of dark pink. Exceedingly valuable, because it combines the earliness, freedom, long stem and large size of Enchantress, giving another color possessing all the other desirable qualities of Enchantress. \$12 per 100; \$100 per 1000.

BEACON.—Orange-scarlet. A vigorous, healthy grower, of ideal habit. A profuse bloomer, with long stems. \$12.00 per 100; \$100.00 per 1000.

ARISTOCRAT.—Cerise-pink. Will be planted largely in place of Lawson. \$12.00 per 100; \$100.00 per 1000.

MELODY.—Daybreak sport of Lawson, about the same color as Enchantress, but much brighter, and does not fade like Enchantress. Also a much better keeper and shipper. Those who grow the Lawson varieties exclusively will find this very valuable and desirable, because it gives an improved Enchantress color, which is so popular, and at the same

time can be grown in the same house with the other Lawsons. An extra fine thing in every way and in great demand. A great addition to the Lawson class. \$10.00 per 100; \$75.00 per 1000.

ROSE PINK ENCHANTRESS.—A sport of Enchantress. Color, dark rose pink. \$7.00 per 100; \$60.00 per 1000.

WHITE PERFECTION.—A novelty of 1906, and a variety for which there is a great demand this season. A third larger than Lady Bountiful and a more perfect flower. \$6.00 per 100; \$50.00 per 1000.

VICTORY.—Scarlet. This is giving great satisfaction, being a free blooming, profitable scarlet. \$6.00 per 100; \$50.00 per 1000.

RED LAWSON.—A fine red. Our stock of this is superior to many stocks of Red Lawson that we have seen. \$4.00 per 100; \$30.00 per 1000.

VARIEGATED LAWSON.—The most productive of the variegated sorts. A favorite. Outblossoms Mrs. M. A. Patten. \$4.00 per 100; \$30.00 per 1000.

WHITE LAWSON.—An excellent white. \$4.00 per 100; \$30.00 per 1000.

LADY BOUNTIFUL.—Pure white. \$4.00 per 100; \$30.00 per 1000.

ENCHANTRESS.—\$3.00 per 100; \$25.00 per 1000.

MRS. M. A. PATTEN.—\$3.00 per 100; \$25.00 per 1000.

MRS. THOS. W. LAWSON.—\$3.00 per 100; \$20.00 per 1000.

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You Cannot Afford to be Without these Two Excellent Varieties

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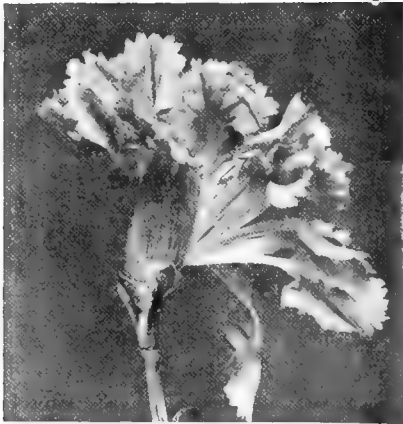
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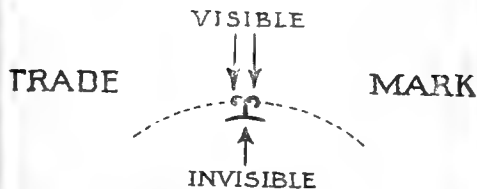
\$\$ SAVE YOUR \$\$ SPLIT CARNATIONS

It Will Mean Dollars to You

Endorsed By the Highest Authorities



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AFTER

Have You Ever Figured How Much You Are Losing Every Year?

We believe we are safe in estimating the loss through so called "splits" at from 15 to 20% of the entire cut. If you had a chance to save all these flowers and sell them for the highest price, would you not do it? That is just what the **BAUR CLIP and PLIERS** will do for you at a minimum of time and expense. Made of galvanized wire and but a small portion appearing on the outside of the calyx, the clips are practically **INVISIBLE**. They make a perfect job and are **INSTANTLY ADJUSTED** with our pliers, an instrument **WORTH ITS WEIGHT IN GOLD**, finely finished and thoroughly nickel plated. Every tool guaranteed. **WILL PAY FOR ITSELF IN A FEW DAYS.**

PLIERS \$3.00

1000 CLIPS \$1.00

Send for it today. Cash with order. Orders filled in strict rotation. Your money back if you are not fully satisfied. Full directions with every outfit. Ready about February 10. Prepaid to any address in U. S. or Canada. Pats. applied for.

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(ORANGE SCARLET)

Originated at Ellis, Mass.

HAS AGAIN DEMONSTRATED ITS COMMERCIAL VALUE

During the season of 1906-7 it has been Grown and Tested by the following :

The COTTAGE GARDENS CO., Queens, N.Y., 5000 plants E. A. STROUD, Strafford, Pa., 1000 plants
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and is endorsed by them as a **FIRST CLASS COMMERCIAL CARNATION.**

AT ELLIS, MASS., WE HAVE 20,000 PLANTS

Prices

Per 100, \$12.00, 50 at 100 rate
" 1000 100.00, 250 " 1000 "

Per 2500, \$95.00 per 1000
" 5000, 90.00 " "

Per 10,000, \$80.00 per 1000

Having a large quantity under propagation we are prepared to make prompt deliveries.

Send for Descriptive Circular

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Red Chief—Bright scarlet—early and very productive. \$12.00 per 100; \$100.00 per 1000. Average 3 in. flower. A leader in every respect.

Bonnie Maid—Clear pink edged white.—\$12.00 per 100; 100.00 per 1000. Large well formed bloom. Very early and productive.

F. DORNER & SONS CO.
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DON'T Be Afraid To Invest In

ROSE PINK ENCHANTRESS

It is both free and "fancy"—a sure money-maker.
Price \$7.00 per 100; \$60 per 1000
Delivery January and later. Write for Descriptive Circular.

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THE BEST rooted cuttings of the following varieties, viz:—

Pink Lawson, Red Lawson, Var. Lawson, White Lawson, Enchantress, Harry Fenn, Genevieve Lord, L. Naumann. Plants ready January 15th. Plants clean; healthy and free from rust. Prices right. Address

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Rooted Cuttings—Now Ready

Per 100:—Light Pink Lawns, \$0.50; White Lawson, \$2.50; Variegated Lawns, \$2.50; T. W. Lawson, \$2.00; Enchantress, \$2.50; Harry Fenn, \$2.50; Manley, \$2.50; Boston Market, \$2.00; Fair Maid, \$2.00

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The most profitable light pink Carnation.

Tested Four Years

\$10.00 per 100. Delivery begins Jan. 1.

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NEW PINK CARNATION FOR 1907

COLOR—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most Pinks, the brightest sun does not injure the color. **SIZE**—3 to 4 inches in diameter when established. **ODOR**—Pleasing, but not strong. **STEMS**—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. **HABIT, etc.**—A very quick, active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. **PRODUCTIVENESS**—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. **Stock limited. Delivery January 5th to 10th and later.**

Price \$12.00 per 100, \$100.00 per 1000

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Order in time. Don't delay. Our cuttings are strong, healthy, and well rooted. Unrooted cuttings at half price.

	100	1000		100	1000
Enchantress	\$2.00	\$17.00	Harlowarden	1.50	12.00
Crusader	1.75	12.50	Mrs. E. A. Nelson	1.50	12.00
Boston Market	1.50	12.00	W. Cloud	1.25	10.00
Mrs. T. Lawson	1.50	12.00	Variegated Lawson	4.50	35.00
			Candace	5.00	40.00

Rooted cuttings of MUMS. We have many kinds at lowest prices. Garza, Diana, Vallis, Daisy Mum, with many other varieties for the season. Write for prices in other stock.

SCHEIDEN & SCHOOS, 60 Wabash Ave., Chicago

100,000 White Perfection ARISTOCRAT

Rooted Cuttings Now Ready
100, \$6.00; 1,000 \$50.00
CHICAGO CARNATION CO.
A. T. PYFER, Mgr. JOLIET, ILL.

Beautiful cerise, Winner Everywhere, Mar. 1st delivery
\$12.00 per 100; \$100.00 per 1,000
CHICAGO CARNATION CO. A. T. PYFER, Mgr. Joliet, Ill.

CARNATIONS — Rooted Cuttings

	Per 100	Per 1000
LAWSON	\$1.50	\$12.00
ENCHANTRESS	2.00	15.00
QUEEN	1.50	12.00
RED LAWSON	2.00	15.00
ROBERT CRAIG	6.00	

WARWICK GREENHOUSES
James Burke, Mgr. WARWICK NECK, R.I.

WANTED Ten Thousand Unrooted Carnation Cuttings

Best Varieties
Please give prices to undersigned
D. A. LASHLEY
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JOHN E. HAINES,
The Leading Scarlet
brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass. All shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted, healthy cuttings leave the place. Rooted cuttings ready Dec. 15, 1906. Price, \$6.00 per 100; \$50 per 1000.
JOHN E. HAINES, Bethlehem, Pa.

A Positive Cure for Split Pinks

The M. & D. ARTIFICIAL CALYX Pat. Sep. 18, 1906.
Will obviate your trouble.
A Perfect Flower guaranteed. \$1.75 per hundred, \$15.00 per thousand, 250 at thousand rates. Send for Sample.
MAXFIELD & DIMOND, Mf., P.O. Box 3040, Warren, R.I.

FINE ROOTED CARNATION CUTTINGS

Free from all disease. Orders taken now will be ready for February and March delivery.

Enchantress, M. A. Patten, White Lawson, Pink Lawson, Robert Craig, Nelson Fisher
Send for our Price List.
Valley View Greenhouses, Marlborough, N.Y.
VELIE BROS., Props.

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not only has one of the largest, but one of the finest collections of any firm in America. We have over a million Dahlia roots to sell this coming season. Send for prices.

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DAHLIAS. Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc.
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Brockton Dahlia Farm

Has the largest and finest collection of Dahlias in United States, with prices that will suit the trade. Send for price list.

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HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

Catalogue mailed on request.

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ROSE SPECIALIST WOODS HOLE, MASS.

ROOTED CUTTINGS OF Kaiserin, President Carnot and La Detroit

Strong, healthy, well-rooted cuttings, ready Dec. 1st; price \$2.50 per hundred or \$20.00 per thousand.

Try our strong, healthy, western grown wood from the best corn soil in Illinois.

BASSETT & WASHBURN
HINSDALE, ILLS.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

GRAFTED ROSES

ON DICKSON'S IRISH MANETTI
We are now booking orders for March delivery.
KAISERIN, BRIDE, BRIDESMAID, KILLARNEY & RICHMOND; \$120 per thousand
Order Now.

ROBERT SCOTT & SON
SHARON HILL, DEL. CO., PA.

GERANIUM

Wholesale catalogue and price list contains descriptions of seventy-five of the best standard sorts and 100 imported novelties, sent free to trade only.

R. VINCENT, Jr. & SON
WHITE MARSH, MD.

Beautiful New Pink Rose AURORA

See announcement and full description in "Horticulture," December 8 issue.

PAUL NIEHOFF, - Leighton, Penn.

GOVERNOR HERRICK THE NEW VIOLET

Originated and introduced by
H. R. CARLTON, Willoughby, O.
We have the following stock in the finest condition to plant and now is the time to plant:
2 1/2 inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000
4 " " 2.50 " " 12 " 100 " 75 " 1000
It will pay you. Try it. Order at once.

CHINESE PRIMROSES

All colors, 5-inch in full bloom, \$10 per 100.
DAHLIAS! Strong Field Roots of Mrs. Winter, White Ruth, Snow-clad, C. W. Bruton, yellow; Kriemhilde, Brunhilde, and other best cactus kinds. \$5 per 100, \$40 per M. Cash.

Harlowarden Greenhouses, GREENPORT, N.Y.

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C. Fouset and Nonin, the money makers as we have found them \$1.00 per doz.; \$7.00 per 100; \$60.00 per 1000. Pacific, Estell, Willowbrook, Halliday, Kalb and L. Harriet, 60c per doz.; \$4.00 per 100; Cash with order.

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653 S. Grand Ave., St. Louis, Mo.

John Waterer & Sons, Ld. AMERICAN NURSERY BAGSHOT, ENGLAND

have the finest stock of recognized Hardy Rhododendrons, Azaleas, Andromedas, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

John Waterer & Sons are the great exhibitors of Rhododendrons in London.

Red Riding Hood Daybreak Lawson or Melody

Our Grand Scarlet, \$12 the 100; \$100 the 1,000
Chicago Carnation Co.
JOLIET, ILL.

Superior to Enchantress in many respects.
\$4.00 per 100; \$60.00 per 1,000. Ready now.
Chicago Carnation Co. A. T. PYFER, Mgr. JOLIET, ILL.

Odontoglossum crispum

A correspondent wishes to know how our plants came through the past hot summer—a very reasonable and pertinent request—and as many have asked, it is thought best to answer through the medium of HORTICULTURE.

The preceding years had been very favorable to summing the plants; the heat being less than usual and rains frequent, many gave credit to these conditions for the improvement seen in the collection, and it certainly did help materially. We find, however, that the sun the plants enjoy from October to April builds up strong tissue in the bulbs and leaves, these becoming bronzed by the exposure even the smallest bulbs producing bloom, and the plants go through the heat as never before when confined to structures that did not admit much sun in winter. This seems to be the key to success in odontoglossum culture; other aids are also beneficial, as the use of the Cookson formula in the water all the time, using osmunda fibre of the brown grade alone for potting material, leaving out moss altogether unless it can be made to grow green.

Last year a dozen more plants were tried again with oak leaves properly prepared and mixed through the fern root, but these all showed signs of distress in summer, not one keeping up with the vigor of their previous years, so we think this system of potting pretty well exploded. When one comes to learn of the large quantities of osmunda roots sent to England for use there of late, and the success attending its use when properly tested, we begin to believe that the best possible potting medium is at our hands at first cost.

The following clipping taken from the November issue of "Orchid Review" is worthy of reprint here; the writer, Mr. J. Mackay, is the orchid expert in charge of Mr. Chamberlain's famous collection and is writing of a noted trade collection as follows: "We next visited the odontoglossum house; and on entering remarked on the fine healthy appearance of the plants; they had just recently been potted in osmunda fibre, surfaced with moss, and from the vigorous appearance of the young growths this material is to be recommended as a potting medium. I have had occasion to use it largely in conjunction with polypodium fibre this last two years and find it suits the cattleyas, laelias and hybrids, dendrobiums and odontoglossums, so much so, that peat and leafy soil are now seldom used. Mr. Mansell * * * is quite in raptures with this material and predicts a great future for it as a compost for orchids."

The writer was among the first to use the roots of Polypodium vulgare over twenty years ago, where, in Ireland, large mats of it could be torn off the oak trees, about three inches thick and pure brown fibre, so that it is similar in texture to our osmunda, except that it is entirely free from earthly particles. The writer above notes that the combination is suited to all the genera cultivated here excepting the cypripedes, which perhaps do better than any others in it.

In the same issue of Orchid Review we note that even English cultivators have been sufferers from the hot

weather last summer. They might copy with advantage the use of a jet of cold water, sprayed through the walk with pressure into a fine mist. A half-inch pipe is run along the floor with a valve at the entrance door and a nozzle screwed on such as used for spraying roses, adjustable and the spray regulated by turning it round. This arrangement keeps the temperature 20 degrees cooler than outdoors. When it reads 95 degrees we have 75 degrees with a circulation of air with it that keeps the foliage moving gently; this is turned off at night, and costs about 5 cents a day for water consumed. We began by using the nozzle on the hose, but at times this would squirm and portions of the house and plants become drenched before we were aware of it.

Our only failure to be recorded is the loss of all the seedling odontoglossums. We had one that was a year old, and this with all raised from seeds sown last spring seemed to melt away during the hot months. We are now experimenting wholly with the Mexican odontoglossums crossed with or on to the more sensitive Colombian species, and hope in time to attain a measure of success. It appears that the large trade growers here are again taking up the culture of cool orchids in thousands, and are succeeding well, the flowers moreover finding a ready market; thus the art of cultivating these most beautiful of flowers which once was on the decline, has rapidly been improved upon and bids fair now to assume as large a proportion as the collectors can guarantee for over here we still have to depend on importations to supply the plants. These are becoming scarce in the older localities; there are plenty more places doubtless which a resident could locate, but in these days of "quick trips" exploration is impossible on the part of the collector.

E. Cooper

About Carnation Britannia

Editor of HORTICULTURE:

Dear Sir—We notice your remarks in your issue of Dec. 8th, with reference to the carnation Britannia.

Doubtless you Americans regard with suspicion a variety raised this side, and perhaps with good cause, when you have so many grand things in your country.

However, we have in Britannia a sort which includes all good qualities of the American varieties, and is in addition, we believe, superior to any American scarlet yet sent out.

At any rate we are prepared to back it against either Victory or Robert Craig, and we believe these are the two best American sorts of this color.

These three varieties were shown at the first meeting of the Winter-flowering Carnation Society and Britannia came first with flying colors, receiving also the gold medal of the society for the best variety in the show.

Britannia is absolutely a non-burster, and we are producing more of this variety than of either Victory or Robert Craig.

Yours faithfully,

Hugh Bowden

Chrysanthemums

THE MARKET SHOW.

On the 12th December last there was held in the Foreign Flower Market at Covent Garden a chrysanthemum show that would probably appeal to many American florists. Organized by the National Chrysanthemum Society, it is entirely different from the ordinary shows of the society and is intended to display the popular flower from a purely commercial standpoint. We see none of the big show blooms we meet with at the ordinary exhibitions and there is but little attempt at artistic display in the arrangement. Most of the exhibits are medium sized blooms of such varieties as can be easily sold in bunches and they are chiefly if not wholly set up in bunches on tables.

Names of prize winners will be of no use to American readers, and the show need only be superficially treated there being almost a monotonous repetition in every case of the way in which the flowers were staged.

Twenty classes were provided for collections of 12 blooms, for bunches of singles, for plants, for yellow, bronze white, pink and crimson marked chrysanthemums in three vases each, for the best novelty, for packed boxes and for memorial designs.

Some of the chief varieties represented were Old Gold, Frank Hammond, Mlle. Therese Pankoucke, Winter Cheer, Nagoya, Mrs. F. Judson, Pink Victoria, Yellow Thompson, Cullingfordi, Phobus, Buttercup, Guy Hamilton, Exmouth Crimson, all in the large flowering sections.

Singles were staged in considerable variety, there being in several of the collections Earlswood Beauty, pale yellow; Mrs. D. B. Crane, pink; Clibran's Yellow; Kitty Bourne, yellow; Lily, a large creamy white; Winnie Wells, yellow; Sylvia, bronze; Earlswood Beauty, pink; Pet, rosy pink; Ryecroft Belle, lilac purple, etc.

In the special class for whites, Mlle. Therese Pankoucke, Heston White, Mrs. J. Thompson and Guy Hamilton were all freely shown.

Messrs. Cragg, Harrison and Cragg had a fine display, the best in their mixed collection being Mlle. Louise Charvet, Mlle. Therese Pankoucke, Mrs. G. Beech, a noble yellow incurving Jap., Frank Hammond, Yellow Thompson and many more. Mr. Prickett, an old grower, had another mixed collection in which decorative and other varieties were freely shown. Mr. P. Ladds, a large market grower, had some fine samples of Framfeld Pink, Mme. Paolo Radaelli, Violet Lady Beaumont, etc.

The show excited a good deal of interest and many visitors besides market men were present.

More About Fences

Mr. Editor, permit me to add my endorsement to the remarks of Mr. Cameron anent the fence question in your issue of Dec. 8. It is timely, particularly so from the standpoint of a gardener. The members of that craft as a rule have hitherto held their opinions to themselves more than they should regarding things pertaining to civic beautification. We gardeners erroneously assume that our whole burden of responsibilities should be confined to the narrow limits of a greenhouse and its immediate surroundings, content to shine at times in the garden periodicals by illuminating their columns with our respective erudite knowledge of greenfly and aphid punk lore, etc.

By association and training there are none better qualified than gardeners to have a say in matters concerning suburban and city landscape harmony. It is belittling on our part not to take part by word at least, if not by deed, alongside those that are doing valiant work in obliterating pest-holes as well as eye-sores, by their well-directed efforts in arousing to action the indifferent larger portion of the community.

If the ordinary sedate fence has aroused the ire of friend Cameron, what says he about the chromo-bespattered fences that are so hideous and plentifully met with everywhere? Nor should our respective opinions be confined to fences; let everything unsightly be handled without gloves. My specialty, Mr. Editor, while friend Cameron takes care of the fence, will be to draw attention to the foul-smelling, slime-begirt, ramshackle pile-wharves, that have done, for so many years, and are still doing duty for this historic and esthetic city of ours.

There is nothing in my opinion that detracts from a city in dignity and refinement, and impresses the stranger more unfavorably at first sight, than a chaotic, nondescript frontage on the water. It certainly is not calculated to impress the visitor with lofty ideas as to the esthetic and enterprising proclivities of the people that are responsible for such unseemly conditions. It has also a direct anomalous bearing on other municipal undertakings in proportion to the excellency of the latter as the case may be. For instance, the park system radiating from the outskirts of the city and extending away into the distant suburbs is justly a source of great pride to Bostonians, not only for their ampleness, but for their artistic and substantial layout, which will become more apparent as years roll by. Thus, then, a well-regulated balance of civic improvement is upset, as one outstrips the other beyond comparison.

Charman Payne

H. G. Imbryson

Anthuriums

Aroidous plants are a prominent feature in tropical vegetation and naturally have found a large place amongst cultivated plants; they have suffered, however, from that comparative neglect which has overtaken old-fashioned stove plants, due partly to the heavy cost of fuel and the demand for specialized plants of serviceable value, which admit of cooler treatment.

Alocasias, caladiums and many others in this important group are certainly of a very fragile character, hardly adaptable for the ordinary rough experiences of exhibit life; anthuriums on the other hand, with a more robust constitution are specially fitted for conservatory and outside purposes. Many of the green foliage varieties will stand with advantage a much cooler treatment than is usually given; these have a preference for a cold bottom stage and thrive in an intermediate temperature. The variegated varieties such as Warocqueanum and crystallinum require much warmer treatment and more careful watering, especially in winter.

They all respond to rich culture and it is only in fully developed specimens or in grouped masses planted out that their decorative value is brought out; a well grown plant of *A. Veitchii* with its elephant ear-like leaves, often 6 ft. in length, is a truly noble subject and gives distinction to any mixed group. *A. Scherzerianum*, known as the Flamingo plant, with its greatly improved varieties, is perhaps the most popular of the section; its bright spathes show up splendidly by electric light. *A. Andreanum*, always a favorite, has also been immensely improved. *Atro-sanguineum*, a deep brilliant crimson, is specially fine and a much larger spathe than the type and ornamented with a golden yellow spadix, shining as if varnished. *Album* is a counterpart of the type with shining ivory white spathes. *Roseum*, a rosy pink with a tri-colored spadix, the base being white, the centre golden, the tips green. The numerous large leaved varieties, such as *Ferriense* and *eburneum*, though fine as specimens where room is no objection, are not to be compared with the types above mentioned in beauty and general usefulness. If symmetrical plants are desired they must have ample space and be constantly turned round and kept clean, each leaf being neatly staked in position; the flower stalks should also be tied to thin green-painted stakes, immediately the spathes unfold. For the production of large foliage and superior spathes there is nothing finer than dried cow dung mixed with sphagnum moss and tied in a neat sloping mound up the stem, supplementing this with a weekly watering of liquid manure during growth. The general compost should be of a turfy character; the green-leaf varieties prefer a larger amount of loam and the variegated ones soil of a pasty nature with charcoal, sand, moss and good drainage; they take a shaded position, ample syringing during growth with plenty of water at the

roots. It is interesting to note in this connection how the leaves of this class are adapted with a broad surface to catch the water, carrying it in a circle round the plant where the absorbent parts of the roots are in a state of nature. They are easily propagated and seed freely, which is often the result of insects walking over the microscopic flowers on the spadix; old plants may be cut down and the stump will yield a goodly number of suitable cuttings for years to come. In commending anthuriums to a more rich and careful culture, it may be said they are worth doing well; the fresh leaves are decidedly ornamental, the spathes last from two to three months on the plants and five or six weeks when cut if kept in water. The whole group bear their beautiful spathes in the dull winter time and onward to the end of August.

Edgar Elvine

Potash for Carnations

Editor HORTICULTURE:

Dear Sir—I would like to ask some questions. You say that carbonate of potash is good for carnations. What proportion do you use in a gallon of water or can it be used in powder form sprinkled on soil? If so, how much to a square foot? Please answer through your paper.

Yours truly,

X.

Potash is good for carnations. The form that it is in, whether carbonate, muriate or sulphate, makes but little difference to the plant. The sulphate of potash, however, seems to give slightly better results on most plants. Sulphate and muriate of potash can be readily secured, as they are on the market as fertilizing material. The carbonate of potash is not readily secured, as it is not generally used as a fertilizer and its cost would be out of all proportion to its fertilizer value.

The salts of potash are soluble in water and thus lend themselves readily to application in liquid form. If this form of application is desired use from 1-4 to 1-2 pound of the salt to 50 gallons of water (approximately a barrel) and apply to 100 sq. ft. of bench surface. If desired the potash salt can be added to the ordinary liquid manure, at the rate of 1-4 pound to 50 gallons of the liquid and apply to 100 sq. ft. of bench. These applications can be repeated every ten days or two weeks to rapidly growing plants. You can use the potash salt in the dry or powdered form if so desired. Use the same amount as in liquid application, 1-4 to 1-2 pound to 100 sq. ft. of bench area and scratch in. Care should be taken to get an even spreading over the entire area.

L. S. Hasselman

HORTICULTURE

VOL. V

JANUARY 19, 1907

NO. 3

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292
 WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 05.

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;
 six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

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case of a local organization. The ownership of valuable property is one of the strongest bulwarks of any institution, giving a guarantee of permanency and assuring the support and respect of men of means and influence always. Any community big enough to maintain a horticultural society or florists' club is sufficiently progressive to make an intelligently selected land investment remunerative in time. Wise investments of this character years ago were the basis of the present great wealth of many influential institutions now widely known which, without this foresight on the part of their founders, might have dropped out of existence long ago. No florists' club can make a mistake if it will thus provide itself with a home which need cost it no more now than would the rental of hired quarters and which after a period of years would become a valuable holding.

In his inaugural address before the Massachusetts Horticultural Society, President S. M. Weld called attention to the possible advisability of reducing the number and amount of cash prizes to be awarded at the exhibitions and the giving, instead, of more medals, certificates of merit, etc., as is more the custom among the successful horticultural societies abroad. This is a proposition that is likely to develop considerable discussion, as sharp differences of opinion on the subject are known to exist not only in the domain of the Massachusetts Society, but elsewhere and wherever horticultural shows are given. The spirit of emulation stimulated by the love of horticulture for its own sake has not yet reached in this country the strength which it has attained in the older European centres, and it will take time to bring our American exhibitors up to that standard where the honor of excelling is a sufficient inducement to striving for it regardless of any direct cash return, but it is well to try to stimulate this sort of competition, for where it prevails there the best and healthiest horticultural progress will be found.

Most clubs and societies start their official year with their January meeting. New officers are being installed and all are promising unflagging zeal

in the positions to which their friends have elevated them. As to the success which they will achieve much depends upon the manner of their start. An oft-expressed sentiment is that when a candidate has been fairly elected to an office of responsibility it is the duty of all members to rally loyally to his support, burying all pre-election differences and partizanship and working shoulder to shoulder in the common cause. It is equally essential that officers after their election should be governed by the same sentiment. When, as is usually the case, on motion of their late rivals, the courtesy of a unanimous vote is extended, it becomes their duty to accept it in good faith and to deal with unvarying impartiality with all members regardless of past affiliations. Nothing can go farther in making an official popular than the following out of this rule of conduct, while the adoption of the opposite tactics will surely help to write the word "failure" across the record of any administration. There are many things that tend to prosperity in an organization, but the greatest of all is Harmony.

Whatever may be the prevailing opinion as to the practicability of a permanently located "home" for our roving national societies the desirability of such a possession cannot be overestimated in the

Building for
the future

Parcels Post

HORTICULTURE has from time to time called attention to the abuses practiced by express companies. It is apparent that no improvement can be looked for in the present service unless heavy pressure is brought to bear upon the companies, and one of the most formidable weapons is the parcels post. Flourish this over an express official's head and see how quickly he'll begin to argue about the detrimental influences this would have upon the country.

A parcels post means the authorizing of the post office department to carry packages up to a certain weight—eleven pounds, for instance. So afraid are the express companies that such a thing will come to pass that they are doing all in their power to prevent the passage of such an act. John Wanamaker was asked when he was postmaster general why we didn't have a parcels post, and he answered, "There are four inseparable reasons, the American Express Company, the Adams Express Company, the National Express Company, and the Wells Fargo Express Company."

Nearly every other civilized country has a parcels post and the successful operation of these is one reason why we should have such a system. What the Swiss, the Germans, the English, and even the Mexicans, can do, we Americans can accomplish. The advantages of a postal system are to be found in the saving in charges and the greater convenience.

From England an eleven pound package can be sent to India for 72c. In Germany the same sized parcel can be sent forty-six miles for 6c., or fifteen hundred miles for 12c. These two illustrations are typical. And when we learn that England's gross post office profits was \$25,000,000, after handling 120,000,000 parcels, and that Germany benefitted to the extent of \$13,000,000 after carrying 150,000,000 packages, we need not worry about our government going into bankruptcy.

In support of the statement that it would be more convenient, I need only say that there are about 74,000 post offices against 30,000 express offices. In country districts the benefit cannot be lightly estimated.

To further the idea of a parcels post California has formed a Postal Progress League which is doing a great work in the disseminating of information and in awakening the people to a realization of the benefits to be derived from it. Great credit is especially due Mr. Edward Berwick of Monterey.

We cannot get a parcels post in a minute, but everyone should make it a point to get his neighbor interested. By informing the representatives to Congress and by a universal stirring up, something must eventually be gained. Either the express companies will be brought to time or we shall gain a much needed department.

The express companies don't want it of course. But the question is who should profit—the vast majority of the people or a handful of men who make a monopoly out of a necessity? Let us unite on this question and Democrats, Republicans, Socialists and all strive to bring about this much needed reform.

R. S. Adams.

Dwarf-Growing Perennial Phlox

The majority of the dwarf perennial phloxes are natives of the mountains of our country. They are beautiful in color and are easily cultivated, being especially adapted to grow in rock-gardens and as edging plants. Their multitude of flowers add a fresh glory to the spring. The native phloxes are very nearly allied, so that the same general cultural directions may suffice for all. Well-drained soil and sunny exposure are essential. Although hardy, the alternate freezing and thawing in mild winters is harmful to them, and young plants should be propagated yearly to fill up gaps in the patches. As the plants do not seed abundantly they have to be increased by cuttings. These may be taken in summer when branches begin to harden and set in sandy soil in frames, where they can be shaded from strong sunshine. They root soon and will become good plants the following season. With large patches, soil of sandy nature may be worked in amongst the branches and if this operation is done in the summer the creeping branches form roots and may be planted where needed. The plants can also be multiplied by division. The following are the best for cultivation:

Phlox amona, Sims. Will thrive in poor clayey soil and is a pretty little phlox of spreading habit and rose-colored flowers in late spring or early summer.

P. bifida Beck. An elegant plant with pale purple corolla.

P. divaricata L. (Syn. *P. canadensis*). Its native home is in moist copses and woods. It grows about one foot high, and is adorned with lilac-purple flowers in summer.

P. ovata L. (Syn. *P. carolina*). With its dark green foliage and nice showy flowers of a rosy shade, it is especially adapted for moist borders.

P. pilosa L. This species is 10-12 inches high. It is a lovely plant, seldom seen in gardens, with umbel-like clusters of flesh or rose-colored flowers more than 1-2 inch in diameter, appearing from June to August.

P. reptans Michx. In gardens best known under the names of *P. stolonifera* and *P. verna*. This species has deep pink-purple flowers and round obovate, often smoothish leaves, and running habit. Very useful for the rock garden.

P. stellaria A. Gray. A nice rock-plant of graceful appearance and white flowers in spring.

P. subulata L. Variable in form and color. There are not many more valuable plants for the flower garden in spring than this rich flowering, evergreen and mosslike species. It is dwarf and neat, forming elegant cushions in borders or brilliant mats over rocks.

Carl Blomberg

NEWS OF THE CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The first meeting of this club held on Monday evening, January 14, will long be remembered by those who were present, for its many incidents of unusual interest.

President Totty was duly installed and his inaugural address was of a high order of merit, being short, to the point and replete with inspiring suggestions. He disclaimed any desire to make innovations or deviate from the policy of his predecessors, urged the value of closer sympathy between the club and kindred societies, more especially the S. A. F., and recommended that the matter of the acquirement of property for a permanent home for the club be taken up in a practical way. Referring to the comparatively small representation of private gardeners in the membership he advocated an active campaign to bring the gardeners to a realization of the great value to them of this organization. He expressed regret at the loss of bowling prestige in recent years. Following the president, vice-president Monda, secretary Young, treasurer Wheeler and trustees Scott and Sheridan were severally called up and made brief remarks promising the best in them for the service of the club for the coming year.

President Totty appointed the following standing committees: legislative, O'Mara, Sheridan, Hallock; essay, Wallace, Scott, O'Mara; awards, Duckham, Butterfield, J. Manda, Hurrell, Turner, Pye, Hoffmeyer; exhibition, Jas. T. Scott, Guttman, C. Weber, E. Dailedouze, Weston; outing, nine members with F. H. Traendly as chairman; house and entertainment, Nugent, W. Rickards, Schultz; dinner, John Scott, Birnie, Sheridan. Special committee on closer relations with the S. A. F., Wallace, Sheridan, Birnie, Traendly, John Scott.

The report of the retiring treasurer, C. B. Weathered showed a balance of over \$2000 in cash. Resolutions of sympathy on the death of Mrs. E. V. Hallock were adopted unanimously. Election of a trustee to succeed C. H. Totty resulted in the choice of John Donaldson by a good plurality. The proposed amendment to the by-laws, placing the treasurer under bonds, was referred to the board of trustees.

At this point W. F. Sheridan took the floor and in a most appropriate and feeling speech presented to C. B. Weathered who had served so faithfully as treasurer for nearly twenty years, a beautiful solid silver service as a token of appreciation and esteem from members of the club. Mr. Weathered's response was from the heart and the reception accorded him left no room for doubt as to the place he holds in the hearts of his fellow-members.

Next in order was a little talk by secretary Hauswirth of the S. A. F. urging a closer affiliation and asking that the membership be largely increased in New York. He made an earnest plea in behalf of the proposed national flower show to be held in Chicago. Secretary Hammond of the

American Rose Society followed with an eloquent presentation of the coming meeting and exhibition of that society at Washington next March and expressed the hope that the high standard reached at Boston last year might be maintained. President Simpson of the Rose Society made a few remarks in a similar vein stating that special premiums from New York friends would be gladly received.

On the exhibition table were vases of carnation Beacon from Peter Fisher and of *Cypripedium villosum* and insigne in many beautiful types, from E. J. Norman, Lee, Mass., a plant of a new salvia, nana compacta, from F. G. Mense and of *Moschosma riparia* from Wm. Duckham and of flower pot hanger from W. C. Krick. The awards committee reported a cultural certificate for Mr. Norman's *cypripediums*.

TARRYTOWN HORTICULTURAL SOCIETY.

The eighth annual dinner of this society was served to upwards of sixty members in the Florence Hotel, Wednesday evening, January 9. The tables were tastefully decorated with carnations, sweet peas, A. Farleyense, *Asparagus plumosa* and *Sprengerii*. The F. R. Pierson Co. contributed fine vases of carnation Winsor. George Saltford of Poughkeepsie showed several blooms of a monster pink carnation seedling, each bloom measuring four inches or more. A marked feature is its fine serrated petals and full center; it may best be described as a carnation poppy. Among the many talented visitors were W. A. Ely, who ably officiated as toastmaster; District Attorney Young and Surrogate Millard. F. R. Pierson told of the good work accomplished by this society wherever horticulture was the issue throughout the United States. He said that the society had a financial credit of nearly \$1,000, and hoped in the near future the permanent fund would be strong enough to carry it independent of annual collections. J. Austin Shaw lauded the horticultural press in good form, and requested to be allowed to talk on Ladies at the next banquet.

DAVID McFARLANE, Cor. Sec.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The annual meeting was held on the afternoon of January 8, with President A. McKenzie in the chair and a large attendance. The winners of the monthly point competition for the year 1906 were announced as follows: gold medal, S. J. Trepass; silver medal, H. F. Meyer; bronze, A. Mackenzie. On monthly point competition, A. Janack, 95; S. J. Trepass, 88 1-3; H. F. Meyer, 86 2-3. Winner of prize for 100 single violets, Ed. Boulon & Son; 18 carnations arranged for effect, H. F. Meyer; 12 carnations arranged for effect, V. Cleaves; best flowering plant, Chas. Lenker with *cypripedium*. It was decided to have the second annual dinner on January 30. Thomas Harrison, J. Duthrie, Chas. Bertanzel, A. Johnson and Wm. Maher are the executive committee.

J. W. EVERITT, Secy.

ST. LOUIS FLORIST CLUB.

The meeting of this club on Thursday afternoon, January 10, will go down into history as a memorable one. The meeting was held in the new quarters in the Burlington Building, President Irish in the chair, and about forty members and visitors present. The report of the flower show committee was read by Secretary Beneke, showing that \$2540 had been subscribed toward the guarantee fund. Opposition was developed, and some lively parliamentary tactics were set in motion, but the president's ruling sustained the committee. The next meeting, February 14, will be in conjunction with a carnation show, the trustees being authorized to secure a hall and appropriate \$50 in prizes. The treasurer's report showed a healthy balance. A vase of a new white seedling carnation was shown by Swan Peterson, under number 127, and received an award of 85 points. A. F. Longgren, salesman for the Chicago Carnation Company, was a visitor. The meeting closed with lively discussions of topics from the question box.

CINCINNATI FLORISTS' SOCIETY.

There was a fair attendance at the meeting held Saturday evening, Jan. 12. It was a smoker, and the topic of the evening was a big flower show to be held in Cincinnati this coming fall. The directors of the society will hold a special meeting next Saturday to formulate a schedule and talk the matter over.

The B. K. and B. Floral Co. of Richmond, Ind., had a couple of vases of new seedling carnations, which were greatly admired. Superior is the cognomen, a pink of the Lawson shade. It scored 88 points. Sarah A. Hill, a white, scored 87 points. Both varieties will be on exhibition at the coming convention. Messrs. Adrian, Shwarz and Deller were the judges.

Visitors—Chas. Knopp, Richmond, Ind., S. J. Heider, Hillsboro, O.

MORRIS COUNTY (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

The eleventh annual smoker of the society was a howling success. About 140 members, friends and guests were here to bear witness. We had a short business meeting. A vote of thanks was given to F. R. Pierson Co., for a magnificent vase of Winsor carnation and to A. J. Guttman for a fine vase of Pink Imperial sent for decoration; both had been certificated previously. The curiosity of the evening was a large pan of *Moschosma riparium*, new to most of us, exhibited by Wm. Duckham. It was judged a valuable winter-flowering plant. It grows anywhere from 2 to 6 feet tall, a mass of minute white flowers completely covering the plants. It belongs to the Mint family and is aromatic. A certificate of merit was awarded. Four hundred and eight dollars and twenty-three cents was the balance left from last year.

The entertainment committee did themselves great credit. Every thing was informal and plenty of refreshments for everybody. The entertaining Rickard Bros. were on hand and

brought some of their friends; Harry A. Bunyard and Mr. Sperling from Stump & Walter Co. were there also. Wm. Turner, the genial Mr. Yoemans of the Monmouth County Club, Mr. Ross of the Tarrytown society, a delegation from Orange, Harry Turner all the way from Castle Gould, and H. L. Hand of Portchester were among our out of town friends. In local talent we were not wanting. Singing and merry-making went on until 1.30 a. m. when with a lusty three cheers for the Madison Club all hied home.

EDW. REAGAN, Secy.

CONNECTICUT HORTICULTURAL SOCIETY.

This society held its regular meeting in County Building on Friday, January 11, President Sternberg in the chair. It was Carnation night, and there was a large attendance of members. Splendid exhibits were tabled by F. R. Pierson Co., Tarrytown-on-Hudson, N. Y., and A. N. Pierson, Cromwell, Conn. Among local exhibitors were: John Coombs, florist, J. F. Huss, superintendent to J. J. Goodwin, and Carl Peterson, superintendent of the Whiting greenhouse, West Hartford.

The following awards were made by the judging committee: F. R. Pierson Co., for the fine new variety Winsor, diploma; for Helen Gould, Melody and Rose Pink Enchantress (as one exhibit), certificate of merit; A. N. Pierson, diploma for an unnamed seedling, which, under the electric lights, looked a rich, glowing scarlet. It is a fine, bold flower, with stiff, erect stem. Also a certificate of merit for an exhibit of Robert Craig and Rose Pink Enchantress. J. F. Huss and Carl Peterson were each awarded a certificate of merit for general displays of carnations. Mr. Huss read an instructive paper on carnation culture, for which he received a hearty vote of thanks. As a proof that the society is becoming a power in the community, seventeen new members were added to the roll.

Visitor, Ulysses G. Scollay, of John A. Scollay, New York.

ALEX. CUMMING.

AMERICAN SEED TRADE ASSOCIATION.

The Executive Committee met last week at the New Willard Hotel, Washington, and decided to hold the next convention at New York city. There were present President H. W. Wood, W. H. Grenell, J. C. Robinson, and C. E. Kendel, secretary, and by invitation Albert McCullough, Henry Nungesser, George S. Green, Vice-President C. S. Burge, Alexander Forbes, W. Atlee Burpee, and F. W. Bolgiano.

BUFFALO FLORISTS' CLUB.

A meeting of the Buffalo Florists' Club was held on Wednesday last; much business of importance being transacted. Several applicants were admitted to membership. A number of the members are going to attend in a body the carnation show at Toronto on January 22, leaving at 8 a. m. via T. & H.

NEWPORT HORTICULTURAL SOCIETY.

The Newport Horticultural Society held a meeting Tuesday evening, Jan. 8. President Butterton occupied the chair for the first time since the election. James Robertson and Samuel Speers found for themselves comfortable seats at either side of the president. After the reading of the minutes and the disposition of various other matters of routine character, the real business of the evening was gone into, which was the consideration of recommendations contained in a report made by the executive committee, which held a meeting a few evenings previously, these recommendations being that the Society hold two exhibitions in Masonic Hall during the year; that over \$1000 be paid in premiums; that the price of admission be 25 cents, instead of 50 cents, as it was last year at the Casino show; that the first show be held in June and the second in September; and that provision be made whereby music and dancing may be provided during the last evening of each exhibition. All the recommendations were unanimously adopted. It was voted to accept the offer of Professor Wheeler of the Rhode Island Experiment station to address the society on "Soda in the Soil, in Its Relation to Plant Growth," at a meeting to be held Tuesday evening, Jan. 22. The meeting will be open to the public and light refreshments will be provided for the occasion.

The Annual Ball.

In last week's issue of Horticulture we read that the Newport Horticultural Society's ball took place on Jan. 9. This ball was one of the best ever given by the Newport Horticultural Society—a ball where young and old abandoned themselves to enjoyment exclusively.

It is said that in Boston the gardeners are so impregnated with pious puritanism that such wickedness as dancing is looked upon as a scheme of Satan to lure those who participate in it to the abode which he has long ago prepared for them, but the Newport Horticultural Society held a ball in Masonic Hall, and about five hundred people were in attendance. Floor Director Daniel Coughlan and Mrs. Wm. Allan, Jr., led the grand march. Newport is a cosmopolitan city; for that reason the order of dances was made suitable for cosmopolitan dancers, although it cannot be denied that it was occasionally noticeable that the dancing was more composite than of any other character. The hall was decorated superbly with evergreens, wreaths, smilax and asparagus, with numerous bells besides. The stage was done with bay trees, palms and foliage plants, finished with a row of Lorraine begonias sent from the Hub by R. & J. Farquhar & Co. Myriads of electric lights peeped out from among the bays and palms. The committee of arrangements comprised Messrs. John T. Allan, Daniel Coughlan, A. Fraser, B. M. Anthony, T. B. Connolly, R. A. Smith, and the president. The reception committee, Dr. A. J. Anderson, James Robertson, Col. A. K. McMahon, J. Gibson, D. McIntosh, Aids, J. T. Allan, P. F. Reynolds, A. Christenson, J. J. Sullivan.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The opening meeting of this prosperous organization for 1907 was held at Horticultural Hall, Boston, on Tuesday evening, January 15, and its importance as the initiatory meeting under the new president was accentuated by its being "Ladies Night" and the presentation of an interesting stereopticon lecture on Italian Gardens by J. K. M. L. Farquhar.

Retiring president Wheeler in vacating the chair to his successor spoke a few appreciative words thanking the members for their loyal support and the trade paper representatives for their help. President Westwood on being conducted to the platform delivered a short address in a manner which showed him to have all the qualifications of a good presiding officer. He referred to the rapid growth in membership in recent years and said that the time had now arrived for growth in education, instancing the remarkable success of the landscape gardening class as a forerunner of the coming activities and ambitions of the club and its members. He spoke of Jackson Dawson, J. A. Pettigrew and others as representing the best in American horticulture and asked for united support in making the coming year a notable one.

Secretary Craig gave some gratifying statistics as to the membership of the club and spoke felicitously concerning the progress of the past year. He stated that communications had been received from three western States asking for information concerning landscape study. Treasurer Hatch reported a substantial balance in the treasury and in the landscape class fund amid long continued applause. William Downs was elected to the executive committee to succeed Wm. Nicholson who was compelled to resign on account of poor health. A vote of thanks was accorded the retiring president.

Mr. Farquhar's lecture was prefaced with two excellent recitations by Miss Grey, daughter of Thos. J. Grey. The lights were then turned off and Mr. Farquhar regaled his audience which completely filled the large lecture hall, with a series of pictures illustrating the architecture and gardens of Gibraltar, Naples, Pompeii, Rome, Florence, Venice, Milan, Genoa, Nice and Monte Carlo, giving an entertaining account of his recent visit to these beautiful places and describing the various styles of formal gardening which have prevailed during the past centuries. Then came refreshments in generous measure.

On the exhibition table was a fine vase of Beacon carnation from Peter Fisher, the new violet "Boston" from William Sim, cyclamens from S. J. Goddard, Lorraine begonias, immense specimens from Wm. Downs, and Lorraine superba from R. & J. Farquhar & Co., the latter bearing flowers of enormous size.

The State Florists' Association of Indiana held their annual meeting at the Commercial Club rooms, Indianapolis, on January 9, opening at 2.30 p. m. A dinner was served in the evening.

AMERICAN CARNATION SOCIETY

The sixteenth annual meeting and exhibition of this society will be held in the assembly hall of City Hall, Toronto, Ont., January 23 and 24, 1907.

Papers will be read at the meeting as follows:—

Are There Too Many New Carnations Introduced? by John Birnie, of West Hoboken, N. J.

Greenhouse Construction, by Mr. King, of Toronto.

American Carnations and Their Prospects in Europe, by C. Engelmann, of Saffron Walden, Eng., and Peter Riise, of Copenhagen, Denmark.

Carnations From a Canadian's Point of View, by Wm. Gammage, of London, Ont.

The Question Box.—This feature of the society is always open and members who have some knotty problem they want answered will kindly write the secretary, A. M. Herr, Lancaster, Pa.; their questions will be assigned the most competent member for an answer.

List of Premiums.

Class A. Open to all varieties, Seedlings or Standard Sorts.

No.	1st Prize.	2nd Prize.
1 Best vase 100 blooms White.....	\$10.00	\$6.00
2 Best vase 100 blooms Enchantress shade of Pink.....	10.00	6.00
3 Best vase 100 blooms Lawson shade of Pink.....	10.00	6.00
4 Best vase 100 blooms Scott shade of Pink.....	10.00	6.00
5 Best vase 100 blooms Scarlet.....	10.00	6.00
6 Best vase 100 blooms Crimson.....	10.00	6.00
7 Best vase 100 blooms Yellow Variegated.....	10.00	6.00
8 Best vase 100 blooms White Variegated.....	10.00	6.00
9 Best vases 100 blooms. Any other color.....	10.00	6.00

Class B. Open to all varieties disseminated prior to July 1st, 1906.

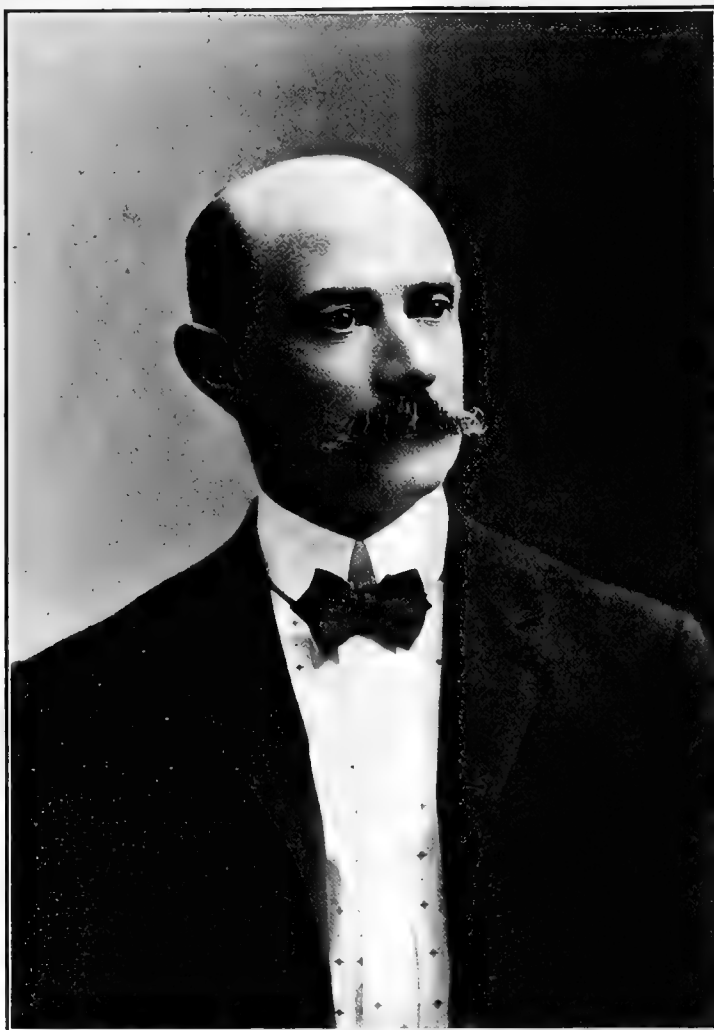
1 Best vase 50 blooms White.....	\$5.00	\$3.00
2 Best vase 50 blooms Enchantress shade of Pink.....	5.00	3.00
3 Best vase 50 blooms Lawson shade of Pink.....	5.00	3.00
4 Best vase 50 blooms Scott shade of Pink.....	5.00	3.00
5 Best vase 50 blooms Scarlet.....	5.00	3.00
6 Best vase 50 blooms Crimson.....	5.00	3.00
7 Best vase 50 blooms Yellow Variegated.....	5.00	3.00
8 Best vase 50 blooms White Variegated.....	5.00	3.00
9 Best vase 50 blooms. Any other color.....	5.00	3.00

Class C. Open to all varieties disseminated prior to July 1st, 1905.

No.	1st Prize.	2nd Prize.
1 Best vase 25 blooms White.....	\$3.00	\$1.50
2 Best vase 25 blooms Enchantress shade of Pink.....	3.00	1.50
3 Best vase 25 blooms Lawson shade of Pink.....	3.00	1.50
4 Best vase 25 blooms Scott shade of Pink.....	3.00	1.50
5 Best vase 25 blooms Scarlet.....	3.00	1.50
6 Best vase 25 blooms Crimson.....	3.00	1.50
7 Best vase 25 blooms Yellow Variegated.....	3.00	1.50
8 Best vase 25 blooms White Variegated.....	3.00	1.50
9 Best vase 25 blooms. Any other color.....	3.00	1.50

The American Carnation Society Medal.

Class D. A Gold Medal will be given



PRESIDENT JOHN H. DUNLOP

for the best vase of 100 blooms, any variety, any color.

A Silver Medal will be given for the second best vase of 100 blooms, any variety, any color.

A Bronze Medal will be given for the third best vase of 100 blooms, any variety, any color.

Special Medals of the Society of American Florists.

Class E. A Silver Medal will be awarded for the best vase of 50 blooms of carnations not yet disseminated.

A Bronze Medal will be given for the second best vase of 50 blooms of carnations not yet disseminated.

The variety to be in all cases of American origin.

Judges are to reserve awards in this class if in their opinion the exhibits are not worthy of the medals.

General Display.

Class F. Best general display of commercial carnations. No restrictions as to color—but variety must have been disseminated prior to April 1st, 1906. 50 blooms to be shown to a vase, and display is not to exceed twenty varieties. Vases from this collection are not allowed to compete in any of the other classes. First prize, \$50.00; second prize, \$30.00; third prize, \$20.00.

Special Prizes.

Silver cup valued at \$50.00 donated by the Canadian Horticultural Association for 6 vases of Carnations, 50 blooms in each; distinct varieties.

The Steele, Briggs Seed Company, Toronto, offer a silver cup valued at \$25.00 for 6 vases, 25 blooms each; distinct varieties. Montreal Gardeners' and Florists' Club, Montreal, Que., offers a cup valued at \$25.00 to the exhibitor making the largest display—all vases in all classes being counted as part toward this display.

The R. W. King Co., Ltd., Toronto, Ont., and North Tonawanda, N. Y., offer a silver cup valued at \$25.00 for the best 100 carnations in four varieties, four vases; competition restricted to the users of King's Greenhouses.

The H. Dale Estate, Brampton, Ont., offer a silver cup valued at \$25.00 for a vase of 100 blooms of the best carnation to be disseminated during 1907.

Cash will be paid for this prize should winner prefer it.

Jno. H. Dunlop, Toronto, offers \$10.00 (gold) for the best vase of white carnations, 50 blooms, distinct from other entries.

W. Gammage, London, Ont., offers \$10.00 (gold) for the best 25 blooms, pink seedling or sport darker than Enchantress and lighter than Lawson, never before winning a prize or medal. Those having preliminary certificates eligible. Entries for this prize will not be eligible to compete for any other prize.

W. J. Lawrence, Eglinton, Ont., offers \$10.00 (gold) for best vase 50 blooms not more than three varieties, open to growers having less than 20,000 feet of glass.

Jno. H. Dunlop offers \$5.00 (gold) for the best vase of 12 blooms carnations, open to private gardeners only.

George Vair, Toronto, offers \$5.00 in cash

for best vase of 25 bright red carnations, to be distinct from other entries.

The one and one-third fare (railroad concession) has been again secured, and every attendant is requested to use this certificate method and solicit the company of some fellow-florists from his vicinity so that the necessary one hundred certificates may be assured.

Carnation Registered.

By the Chicago Carnation Co., Joliet, Ill.—Beau Brummel. A large white overlaid with crimson on the order of Prosperity, having more color than this variety; a cross between a white seedling of our own and Harlowarden; an early, free and continuous bloomer, producing large, well formed flowers on good strong stems.

By Baur & Smith, Indianapolis, Ind.—Saint Nicholas. The brightest scarlet we have ever seen in any carnation, exactly identical with the geranium Trego in color. Does not dull in ageing. Large bloom on fine long and strong stem and very free. At its best during midwinter, but comes in early and continues late. Clean, vigorous, upright grower, with strong constitution. Both parents seedlings.

May.—A full shade deeper and brighter than Enchantress. Bloom of large size and well formed, opens up the center petals as soon as the bloom is unfolded. Good substance and never bursts the calyx. Stem of good medium length and as strong as Lawson. A fine, healthy grower and very free; comes in very early and never lets up until midsummer. Both parents seedlings.

ALBERT M. HERR, Secretary.
Lancaster, Pa.

WASHINGTON FLORISTS' CLUB.

List of prizes offered for the spring exhibition to be held in connection with the meeting of the American Rose Society, March 13, 14, 15, 1907.

PLANTS.

- No. 1—Indian Azaleas, six distinct named varieties, \$12, \$7, \$5.
 " 2—Palms, pair in pots or tubs, \$12, \$7, \$5.
 " 3—Ericas, six, not less than three species, P. Henderson & Co., \$5, \$3, \$2.
 " 4—Orchids, three plants, Mr. S. C. Briggs prize, \$8, \$5, \$2.
 " 5—Hardwooded greenhouse plants, two or more in bloom, azaleas excluded, \$7, \$3, \$1.
 " 6—Acacia, specimen plant, \$7, \$3, \$1.
 " 7—Hardy primroses and polyanthus, twelve plants distinct varieties, \$4, \$2, \$1.
 " 8—Cyclamens, ten plants in not over seven inch pots, \$10, \$5, \$3.
 " 9—Cyclamen, single plant, \$5, \$4, \$3.
 " 10—Cineraria, six varieties, \$10, \$5, \$3.
 " 11—Cineraria, specimen plant, \$3, \$2, \$1.
 " 12—Cineraria, stellata, six plants, \$10, \$5, \$3.
 " 13—Cineraria, stellata, specimen plant, \$3, \$2, \$1.
 " 14—Hyacinths, twelve named varieties, in pots, one in a pot, \$8, \$5, \$2.
 " 15—Hyacinths, six named varieties, in pots, one in each pot, \$4, \$3, \$1.
 " 16—Hyacinths, three pans not to exceed 12 inches, 10 bulbs of each variety in each pan, \$8, \$5, \$2.
 " 17—Hyacinths, single pan not to exceed 12 inches, 10 bulbs of one variety, \$4, \$3, \$2.
 " 18—Tulips, six eight-inch pans, nine bulbs of one variety in each, \$4, \$3, \$2.
 " 19—Tulips, three eight-inch pans, nine

- bulbs of one variety in each pan, \$3, \$2, \$1.
 " 20—Tulips, three 10-inch pans, 12 bulbs of one variety in each pan, Henry F. Michell Co., \$4, \$3, \$1.
 " 21—Polyanthus Narcissus, four eight-inch pots, five bulbs in each pot, distinct varieties, \$4, \$3, \$2.
 " 22—Jonquills, six pots or pans not exceeding eight inches, the number of bulbs in each left to the exhibitor, \$3, \$2, \$1.
 " 23—Narcissus, six eight-inch pots or pans, distinct varieties, single or double, \$8, \$4, \$2.
 " 24—Narcissus, three eight-inch pots or pans, \$3, \$2, \$1.
 " 25—Lily of the Valley, six pots or pans not exceeding eight inches, Henry F. Michell Co., \$3, \$2, \$1.
 " 26—Crocus, three ten-inch pans, three distinct varieties, \$3, \$2, \$1.
 " 27—Ixias, six pots or pans, distinct variety, \$3, \$2, \$1.
 " 28—Roman Hyacinths, six eight-inch pans, 10 bulbs in a pan, Henry F. Michell Co., \$3, \$2, \$1.
 " 29—Amaryllis, six pots, distinct varieties, \$8, \$4, \$2.
 " 30—Collection of Herbaceous Spiraeas, not less than three varieties, \$8, \$4, \$2.
 " 31—Display of Easter plants, bulbous plants with the exception of Easter lilies and Cyclamens excluded, \$20, \$10, \$5.
 " 32—Fern, any variety, that has been growing in a dwelling for at least four months previous to exhibition; open to amateurs only. John Clark, \$5, \$3, \$2.
 " 33—Rubber plant that has been growing in a dwelling for at least four months; open to amateurs only. Peter Bisset, \$5, \$3, \$2.
 " 34—Geranium, grown in a dwelling for four months, Geo. Field, \$5, \$3, \$2.
 " 35—General display of spring bulbous plants, all classes, \$20, \$10, \$5.
 " 36—Lilacs, six specimen plants, distinct named varieties, \$8, \$4, \$2.
 " 37—Hydrangeas, Hortensia section, three distinct varieties, \$8, \$4, \$2.
 " FLOWERS.

- No. 38—Carnations, vase of 100 cut blooms of one variety with foliage, Washington Florists' Club, \$6, \$4, \$2.
 " 39—Carnations, 25 blooms, any named crimson variety, \$4, \$2, \$1.
 " 40—Carnations, 25 blooms, any dark pink, Mrs. Lawson or darker, \$4, \$2, \$1.
 " 41—Carnations, 25 blooms, of any light pink variety lighter than Mrs. Lawson, \$4, \$2, \$1.
 " 42—Carnations, 25 blooms, of any

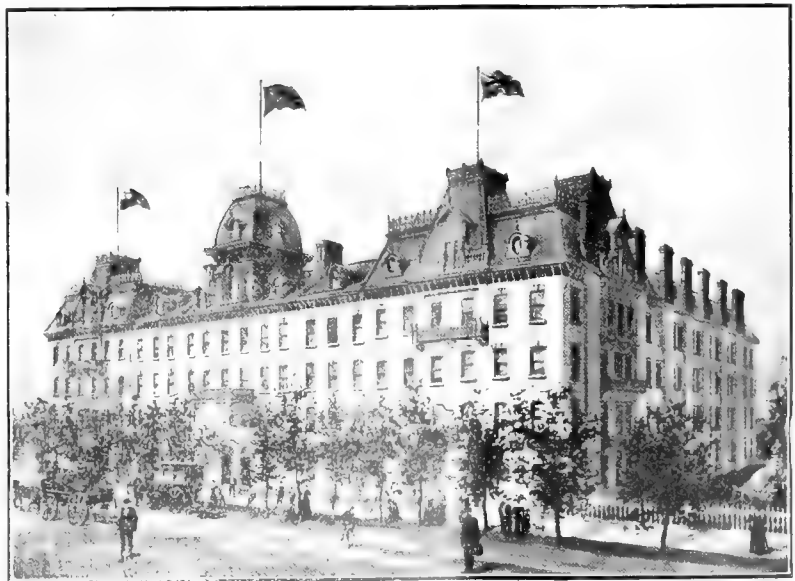
- named scarlet. Geo. H. Brown, \$4, \$2, \$1.
 " 43—Carnations, 25 blooms, of any named white variety, \$4, \$2, \$1.
 " 44—Carnations, 25 blooms, of any named yellow variegated variety, \$4, \$2, \$1.
 " 45—Carnations, 25 blooms of any named white variegated variety, \$4, \$2, \$1.
 " 46—Pansies, forty-eight cut blooms not less than 24 varieties shown in flat dishes, \$3, \$2, \$1.
 " 47—Violets, bunch of 100 blooms Lady Hume Campbell, \$3, \$2, \$1.
 " 48—Violets, bunch of 100 blooms of any other double variety, \$3, \$2, \$1.
 " 49—Violets, bunch of 100 blooms Princess of Wales. Chas. McCauley, \$3, \$2, \$1.
 " 50—Orchids, display of not less than six genera and fifteen named species and varieties, filling not less than twenty bottles.

Hybrid Geranium. Mrs. S. C. Briggs, \$5, \$3, \$2.
 Seedling Carnation, six or more blooms shown for the first time. Mrs. S. C. Briggs, \$5, \$3, \$2.
 Seedling Rose, six or more blooms shown for the first time, Mrs. S. C. Briggs, \$5, \$3, \$2.

For further information apply to the secretary, Charles McCauley, 18th and Kearney streets, N. E., Washington, D. C.

MONMOUTH COUNTY HORTICULTURAL SOCIETY.

The annual dinner of the Monmouth County Horticultural Society was held at Red Bank, N. J., on Thursday, January 10, at "The Sheridan," with one hundred or more members and guests present, among the latter being Messrs. Totty, Herrington and Schulz of Madison, and representatives of the various New York seed houses. Mr. Butterbach, the "father of the society," being absent on account of sickness, Mr. Herrington served as toastmaster on request of President-Elect Kennedy. An elegant repast, with many eloquent speeches and lively songs kept the company busy until about 2 A. M., and the evening was pronounced "the best ever."

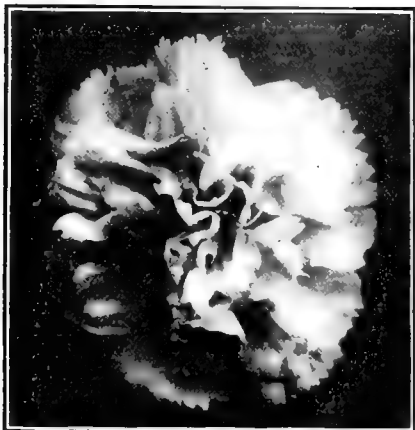


QUEENS HOTEL, Toronto

Headquarters of American Carnation Society.

Carnation Winsor

We present in this issue two interesting illustrations showing this superb carnation as it is growing and blooming at the present time in the place of its nativity and in its later palatial home—localities two hundred miles or more apart. Strong adjectives have been used in describing Winsor but they are not overdrawn; great predictions have been made as to its future and they bid fair to be more than fulfilled. Its features and qualifications for commercial popularity as a grower and bloomer and as a cut flower are pretty familiar to the readers of HORTICULTURE because we have reverted to them frequently and the fact that, as indicated in our advertising pages herewith, Winsor is to be distributed by the F. R. Pierson Co., is a guarantee that every plant will be a good one. The following notes concerning Winsor, its birthplace and the man who raised it will,



WINSOR—Size Reduced One-Half.

no doubt be highly enjoyed by our readers:

Winsor and Its Birthplace.

BY THOMAS WHITE

Carnation Winsor which is neither a sport nor a chance seedling, but the result of judicious crossing and selection, came into existence in the greenhouses of Walter P. Winsor of Fairhaven, Mass., a town which, by the way, is rising "phoenix-like" from the ruins of the departed whaling industry, and which for a small town has contributed a goodly share to the attractions of the horticultural world. Among the trophies which have found their way to Fairhaven are the Hunnewell cup for best kept private estate, silver medal for introduction of *Saxifraga sarmentosa tricolor* and several cups and medals captured at New Bedford and Newport by James Garthly, gardener for H. H. Rogers, silver medal for introduction of *Dendrobium Burfordensis*, *Dendrobium Virginalis*



WINSOR

At Scarborough, N. Y.

and certificate for introduction of Carnation Winsor. Also, one silver, one bronze and three silver gilt medals for superior cultivation and display of orchids awarded to Peter Murray, gardener for W. P. Winsor, by the Massachusetts Horticultural Society. In addition to these may be mentioned anemone chrysanthemum Victoria,

raised by James Garthly, and *Adiantum Murrayanum*, raised by Peter Murray but which have not as yet been presented to the world.

Mr. Murray who is responsible for the appearance of the Winsor carnation, landed in Boston in the spring of 1888, a young man just out of his time and, like many another son of Scotia,



WINSOR

At Fairhaven, Mass.

with more in his head than in his pocket. After working for four years in Dedham, Mass., and Portsmouth, N. H., in 1892 he accepted the position as gardener for W. P. Winsor where genius has had ample opportunity to develop and as the above record shows, diligence has been crowned with success.

W. P. Winsor in whose greenhouses the carnation which bears his name was raised has been from his youth an ardent lover of horticulture and to him as proprietor is due credit for the introductions above mentioned as also for the medals and premiums awarded for excellence of many exhibits at the Boston and local exhibitions. For a number of years Mr. Winsor annually opened his greenhouses for a few days to an appreciative public; when many thousands of people enjoyed seeing his splendid collection of orchids and other choice greenhouse plants. In thus sharing with the less fortunate the results of expense and toil Mr. Winsor displays the spirit of the true horticulturist. Two years ago Mr. Winsor decided to give up his greenhouses and since that time Mr. Murray has conducted them upon a commercial basis on his own behalf.

CARNATION BEACON.

The name of Peter Fisher attached to a carnation novelty goes as far as columns of profuse praise. Beacon is a sterling scarlet and it is in the air all about that Beacon is expected to take the first place in its class as an all-round good grower and profitable producer.

The three houses shown in the picture were added during the past year to Mr. Haines' range at Bethlehem, Pa., and are filled with the three novelties, John E. Haines, disseminated last season, and Imperial and Pink Imperial, to be sent out this year. The general character and vigor of



JOHN E. HAINES

growth are so well shown in the illustration that little can be added here. Alex. Guttman of New York, who controls the sale of the blooms, states that the Christmas demand for these bright colored varieties far exceeded the supply obtainable. A number of other seedlings of much promise are also under cultivation and will be brought out in due time.

Mr. Haines started business twelve

years ago with a small house in which he grew lettuce more for pastime than profit; he soon began experimenting in carnation raising and found it so interesting that he gave up his entire time to it and the houses were added to from time to time.

The establishment is under the efficient supervision of William Mangan as foreman. Mr. Mangan for the six years previous to entering Mr. Haines' employ was on the estate of John Wanamaker of Philadelphia. Mr. Haines also has the assistance of his daughter, Mrs. George H. Weber, who takes charge of the books and correspondence.

NEWS NOTES.

A. N. Squire of Naugatuck, Conn., is moving from Maple St. to Church St.

Clare Haven becomes a partner in the Wildemere Gardens, Highland Park, Mich.

The greenhouse connected with the Country Club of Glenville, Ohio, was totally destroyed by fire recently.

Joseph Doyle, employed by H. A. Holton, Morristown, N. J., is laid up at the hospital with a fractured leg.

Wm. L. Hundertmark, Passaic, N. J., has filed a voluntary petition in bankruptcy. His assets are given as \$1,500, liabilities, \$3,000.

The M. & D. Artificial Calyx advertised in this issue is a cute little device that the carnation grower only needs to see to appreciate its value.

Mr. Mann has resumed his connection with the greenhouse on Washington St., Ipswich, Mass., for the past year under the management of Michael Burke.

H. H. Jahn, for thirty-seven years in business at 128 Broadway, Brooklyn, N. Y., has moved to 710 Nostrand avenue. The "opening" occurred on January 8, from 7 to 11 p. m.

Fred Miessel, Detroit, experienced a bad set-back through the bursting of one section of his hot water boiler during a cold night and it was with great difficulty that frost was kept out of the houses by smoking. Many plants were badly injured through this excessive smoking.

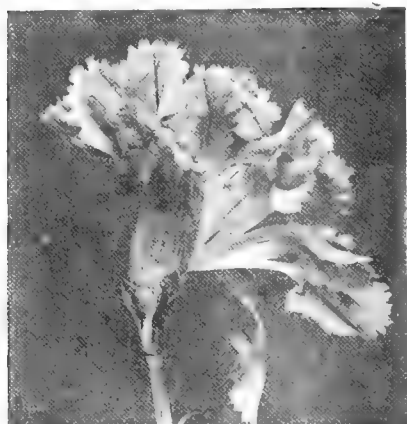
A meeting of the State Board of Agriculture was held at the State House, Boston, on January 9. The present board of officers was re-elected; Prof. Waugh urged a greenhouse survey of the state; the board recorded itself in favor of transfers of real estate of incorporated agricultural societies, "with the assent of two-thirds of the members present and voting," and the announcement was made of a conference of the agricultural boards of the New England States on March 8.



HOUSE OF IMPERIAL, PINK IMPERIAL AND JOHN E. HAINES
At Bethlehem, Pa.

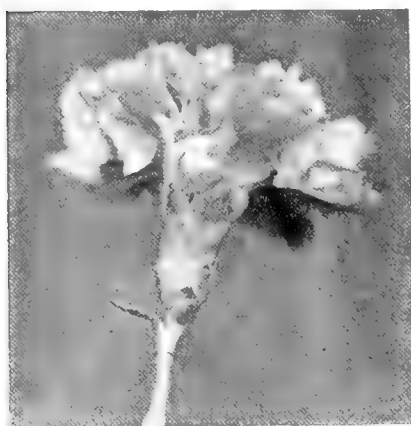
SPLIT CARNATION FLOWERS.

Improved methods in growing carnations and the introduction of improved varieties have not as yet mitigated to any great degree the provoking habit of the divine flower of producing malformed blooms, commonly termed "splits." How to mend these flowers so as to enable the dealer to



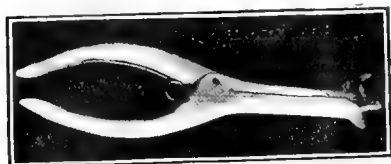
BEFORE MENDING.

obtain as high a price for them as possible has no doubt engaged the best thoughts of not a few carnation specialists. Split carnations are likely to be a product of every carnation growing establishment for some years to come, and what careful cultural



AFTER MENDING.

methods fail to accomplish while the blooms are developing on the plants must be provided for after they are cut. The clumsy method of applying a rubber band around the calyx is open to serious objection and makes the buyer suspicious that the flowers



THE PINCERS.

are not fresh. A little device has been recently invented, and a patent applied for by the inventor, A. J. Baur, which it is hoped will fill these requirements. It consists of a little

wire clip which serves to hold together the two broken edges of the split calyx, in natural position, bringing the petals into the arrangement that they would have occupied had the calyx not split. The accompanying illustrations give a good idea of the device mentioned. The first two illustrations are photographs of the same flower of Mrs. Thos. W. Lawson, before and after mending. The wire clip, being made of galvanized wire, is almost invisible against the color of carnation foliage. The third picture shows a wooden model of the pincers used in applying the clips. The device will be on exhibition at the Toronto Carnation meeting. See the full-page advertisement in this issue for further description of this useful little device.

WHOLESOME CHESTNUTS.

Now is the time to make as accurate a calculation as possible of the stock required for spring sales or for planting; growing year after year quantities of stuff for which there is little or no demand is about as futile as giving house room to old leafless plants that can never be of satisfactory service again.

Azaleas require great care now, that they may be in the desired condition when the time comes that they are needed. It is always much safer to treat azaleas on the cool side than otherwise until it is well nigh absolutely certain that they will not be ahead of time.

Spireas should receive attention in a very short time, and when they are once well under way they should never be allowed to get in the least dry at the roots, because if they do disastrous results will result.

Deutzias well grown are most desirable plants for Easter, and they are well adapted for forcing, because if occasion and necessity require a little extra prompting in the matter of heat does not work injury to them.

Keep all eyes continually on lilies, always remembering that after Easter the same as before that festival these plants and flowers are but moderately profitable.

In making preparation for the propagation of dahlias, it will be well to have a clear idea of what is wanted and the quantity for each purpose; that settled, with the varieties decided upon, push ahead with the propagation. Keep the stock and the cuttings rather cool than otherwise and do not shade either for long.

It is always well to thoroughly wash all woodwork in graperies before starting the vines, and if a good coat of paint can be given in addition so much the better. It is surprising how mealy bug manages to hide in small crevices bordering the glass and other-where. There is nothing that is so effectual in stopping their heart action when hidden in such places as a coat of good white lead and linseed oil well worked in and spread over.

If mealy bug was at all noticeable on the vines, it is desirable to remove the loose bark and carefully examine around the eyes to ascertain if any still remain, and if so as carefully remove the same. After this work of dry cleaning the vines is completed,

they should be painted with a rather thick solution of whale oil soap, sulphur and a little kerosene, made thicker for adhesion by the addition of a reasonable quantity of red clay and cow manure.

The exhausted soil on the surface of the border should be cleared away and the roots laid almost bare, then good fibrous turf, enriched according to discretion, placed instead of what was taken away. The vines need a good watering shortly after heat has been applied, but care should be taken not to overwater immediately afterwards until growth has made considerable progress. Undue excitement is very injurious even in early forcing. Peaches and nectarines should by this time have all superfluous wood removed from them and all fruiting and other necessary wood neatly and carefully tied on before the buds begin to swell too much and expand. If San Jose scale is in evidence, lose no time in applying the most approved and reliable remedies.

THE PEONY MANUAL.

The first edition of the Peony Manual was of necessity imperfect. The issue of 2000 is now exhausted. We presume the Peony Society some time in the future will issue a work on the subject. But something is needed now. A new edition is in the hands of the printer. Great pains have been taken to have it up-to-date in every way. Descriptive lists from France, Holland, and America have been gathered, and about 200 of the leading sorts are given with originators and dates. Peonies have been placed in three classes:

1. The indolent, or lazy, that won't bloom.
2. The sensitive—affected by late frosts.
3. The free bloomers, the most valuable of all.

Especial attention is paid to raising from seed. Minute directions are given for preparing ground, dividing roots, planting, etc.

C. S. HARRISON.

A DESIRABLE GIFT FOR YOUR EMPLOYEE.

There can be no more useful and appropriate present than a subscription to HORTICULTURE. The more he reads HORTICULTURE the better service he will render you. If you want to give five or more we will be glad to make a special discount, on application.

Other Useful Books.

- The Dahlia. By L. K. Peacock. Price, 30 cents.
- The American Carnation. C. W. Ward. Price, \$3.50.
- Manual of the Trees of North America. C. S. Sargent. Price, \$6.00.
- The First County Park System. F. W. Kelsey. Price, \$1.25.
- The Horticulturist's Rule-Book. Bailey. Price, 75 cents.
- Chrysanthemum Manual. Smith. Price, 40 cents.
- The Chrysanthemum. Herrington. Price, 50 cents.
- How to Make Money Growing Violets. Saltford. Price, 25 cents.
- Dwarf Fruit Trees. Waugh. Price, 50 cents.

NEW BEDFORD HORTICULTURAL SOCIETY.

The annual meeting of the New Bedford Horticultural Society was held in the rooms of the Y. M. C. A. Building on Monday, Jan. 14, when the first president, Wm. Keith, retired from office after four years of strenuous service. The following officers were elected: President, Frank C. Barrows; treasurer, Edward E. Peirce; clerk, Joseph C. Forbes, re-elected; assistant clerk, Edward E. Shaw. The following were elected to serve as executive committee: A. J. Fish, Thomas White, H. A. Jahn, James H. McVicker and W. H. Richardson.

At a previous meeting it had been decided to hold a spring show; but owing to the partial destruction of the city hall by fire a few weeks ago, the idea was abandoned. The city hall has always been available for exhibition purposes upon very liberal terms; and for lectures and exhibitions where no charge was made for admission and which were considered to be of an educational nature, no charge for the use of the hall being made.

The four years of the society's existence has been a period of progress and of usefulness. Although the annual membership fee is very small and donations have been few, a number of free exhibitions have been given and free lectures delivered. The object of the promoters has been to interest the general public in the pursuit of horticulture and civic improvement. The executive committee were instructed to formulate plans for a monthly exhibition of plants, flowers, etc., upon a small scale, for distributing free packages of seeds to the school children and also for a way to interest the children in the destruction of moths, nests, etc. To encourage this work a sum of fifteen dollars has been promised by a prominent citizen.



ARISTOCRAT.

Photo. Dec. 1, 1906 Chicago Carnation Company.

FLORISTS' AND GARDENERS' CLUB OF RHODE ISLAND.

The club celebrated the eleventh anniversary of its existence on Thursday evening, January 10, with a dinner and entertainment in the new store of Rennie & Thompson. The room and tables were elaborately decorated. A social half hour preceded the dinner, which was served at 8.30, and was followed by a stereopticon entertainment, divided into humorous

and travel views. W. B. Wilson was the lecturer. Dr. A. J. Wheeler of the R. I. Agricultural College was a guest. M. Sweeney, Wm. Appleton, Alex. Macrae and Secretary W. E. Chappell were the committee in charge of the arrangements.

PASADENA GARDENERS' ASSOCIATION.

The regular meeting of the Pasadena Gardeners' Association was held at the G. A. R. Hall, January 4th. It was well attended and various topics were discussed. The annual election of officers resulted as follows: President, John Blake; vice-president, A. McLeod; secretary, H. Merrill; treasurer, G. A. Sawyer; trustee, A. T. Hansen. The meetings will be held as usual on the first and third Friday of each month at 8 P. M. at the G. A. R. Hall.

CALIFORNIA NOTES.

The recent demand of violets for moist weather has been abundantly supplied every day during the past week, and now again, like all other seasonable blooms, there is a sufficiency for the trade.

Professor C. W. Woodworth, head of the entomological department of the University of California, is sought by the University of Mississippi as president of that institution.

At Brentwood, Cal., a central town of a horticultural section within two hours' ride of San Francisco, an adjourned meeting of those interested in the proposed Farmers' and Horticulturists' Telephone Association was held this week. The purpose is to install a metallic system, extending over about forty miles of territory, with one central office. Connection will be made with the Sunset Company for long-distance outlet. Much interest is manifest in the movement, and many signatures of growers in its support have been obtained.



WHITE PERFECTION.

Chicago Carnation Company.

LIBRARY NOTES

On two previous occasions I have given in the columns of HORTICULTURE some short notes of recent publications relating to gardening. To anyone interested in the literature of horticulture it has long been abundantly manifest that there must be an extraordinary demand for new books connected with the garden and of late the supply would seem to be almost in excess of the demand. But as month after month goes by the publishers' lists still contain announcements of further additions to the already lengthy lists and as we have nowadays all the resources of color printing and process blocks at our command most of the new books are produced in a style infinitely superior to that in vogue a few years ago. The printing, binding and illustrations are today wonderful examples in the art of book making and many of the modern books are so expensive as to cause one to wonder what class of gardener either amateur or professional it is that can afford to keep constantly buying them.

One of the noblest volumes ever published is unquestionably *The Art of Garden Design in Italy*, by H. Inigo Triggs (Longmans, Green & Co., London.) The published price of this grand folio which measures 17 inches by 13 inches is a trifle over eighteen dollars in American money and it is dedicated by permission to H. M. Queen Margherita of Italy. It is bound in buckram with gilt top and contains 132 pages of letter press each with a grand margin such as will appeal to every book lover's heart. There are 128 plates of which seventy-three are reproductions in collotype from photographs specially taken by Mrs. Aubrey Leblond. The others are half tone blocks and reproductions of old engravings dealing with Italian gardens. In addition the various chapters are illustrated by plans, sketches, and measured drawings of garden detail in fountains, statues, ponds, terraces, balustrades, steps, vases and other innumerable garden accessories.

The author's scope is extensive, for the villas and gardens selected for treatment range from those in Lombardy to those as far south as Sicily, and including many far-famed places.

The *Art of Garden Design in Italy* is divided into two main divisions—The first consisting of an historical essay dealing with garden planning from the early days of the Roman Republic through the imperial age down to more modern times. The other division consists of a series of descriptive and critical studies of a large number of the principal villas still remaining.

The frontispiece is a fine view of the garden approach to the Villa Palmieri at Florence. Another is a plate representing the terraces and mount on the south side of Isola Bella, that curious terraced island garden in Lake Maggiore built by the Count Borromeo and described by many a traveller, from the days of Bishop

Burnet and Charles de Brosses down to the present time. Villas on Lake Como are represented by views of the Cypress Avenue Villa d'Este, the entrance forecourt of the Villa Carlotta and others. The fountain of Neptune in the gardens of the Palazzo Doria at Genoa is a striking and effective picture. The Cloister garden of the Certosa di Pavia and the Cypress Alley at the Villa Giusti, Verona, also merit a few words. A typical Italian garden picture is that of the steps of the Villa di Castello near Florence with flower pots arranged on each side. The loggia of the Villa Bondi Florence is one of the finest. The palm walk in the Royal Palace of the Quirinal is also a typical scene. But our time and space are limited and we must pass on to other things of a bibliographical nature that require notice.

Hortus Veitchii by James H. Veitch. This is a work of an entirely different character although it is in many respects a handsomely got up book, printed, illustrated, and bound in good style. It is a very large octavo (11x7 3-4 in.) and is as we are told on the title page a history of the rise and progress of the nurseries of Messrs. James Veitch and Sons together with an account of the botanical collectors and hybridists employed by them and a list of the most remarkable of their introductions. The *Hortus Veitchii* runs into over 540 pages, there is a large number of full paged, well executed engravings of plants, trees, flowers, etc., besides a series of portraits of the various members of this illustrious firm. It is only a short time ago since we had occasion to notice a somewhat similar kind of publication issued by Monsr. Philippe de Vilmorin, but that published by the English house is in every respect a much more formidable and comprehensive work.

There are interesting sketches of the lives of travelers sent abroad by the firm at different times, similar treatment being accorded to the hybridists in the firm's employment, the first hundred pages or thereabouts being devoted to this preliminary matter. In rapid succession follow the chapters dealing with Messrs. Veitch's introductions of plant novelties.

An excellent index brings to a close this work the author of which has been in some respects assisted by such authorities as Mr. Henry J. Veitch, Mr. P. C. Veitch, Mr. J. G. Veitch, Dr. Masters, Mr. G. Nicholson, etc.

The Heart of a Garden, by Rosamund Marriott Watson. (The De la More Press, London.) This is a work in which poetry and gardening are combined, and is the description of an English garden, by its owner, who is evidently an enthusiastic amateur, from spring to winter. There are numerous illustrations of gardening scenes from photographs, many of which represent delightful little bits that will appeal to many a reader. *The Heart of a Garden* belongs to what we may properly describe as the literary gardening work, and of these there seems to be an ever increasing number as of the more practical.

My Garden, by Eden Phillpotts. (Country Life Library, London.) So far as the paper, printing, binding and illustrating go this is a very similar book to the preceding, but if this conveys but little idea to the reader it may usefully be said that every work issued by the Country Life Library is turned out in a style that reflects credit on author, printer and publisher alike. Mr. Eden Phillpotts, although a writer of repute, has never yet written a gardening book until now. He only ought to have done for there is a style, and a flavor of humor about his writing that is not often met with in works by the regular horticultural scribe.

It would be too long a task to deal with "My Garden" on its merits and it must suffice to say that the numerous illustrations are executed in the highest style and consist of some charming little bits from this well-known literary man's gardens. Some of the iris pictures are very finely done and a large portion of the book is devoted to that flower and also to the white rockery, and rockeries nowadays are the subject of an increased interest in this country. Mr. Phillpotts' writing is descriptive of many choice plants and flowers in his garden and is essentially interesting from the quiet humor in which he holds his reader right through the book. We do not remember to have experienced the same satisfaction in perusing a gardening book since we read "My Summer in a Garden" by Charles Dudley Warner. In this work we certainly have a happy blending of the literary and the practical elements.

The Small Garden Beautiful and How To Make It So by A. C. Curtis. (Smith, Elder & Co., London.) This is another work executed in all points in much the same manner as the book preceding. The chapters are few and cover such subjects as design, groundwork, the herbaceous border, hardy perennials, rock and water gardens, roses, shrubs and climbers, the kitchen garden and cultural notes. There are about a dozen plans to enable beginners to start in laying out a new garden and this is a feature in English gardening books that has very largely been conspicuous by its absence.

Pictorial Gardening by George F. Millin. (Methuen & Co., London.) This is a much smaller octavo cloth bound volume than those mentioned just previously and the illustrations, of which there are twenty-four, are small and by no means so well executed. The book is well printed in a large, clear cut old style type and is announced by the publishers to be an attempt to apply the principles of the landscape painter's art to the formation of small gardens.

Gardening Made Easy by E. T. Cook. (Country Life, Ltd., London.) This is a wonderful shilling's worth, and is described as a simple handbook to the garden. The author is a well known horticultural writer who has done much in the way of editing some very attractive books on gardening during the past few years, most of them

being published by the Country Life Limited. The cultural directions are freely and explicitly given, and under the various headings lists of the best flowers and plants for outdoors and the greenhouse are supplied. Also the names and descriptions of ornamental trees and shrubs. Useful vegetables and fruits likewise occupy the author's attention. There are a few illustrations explanatory of the bed, and among other subjects roses are liberally dealt with. Orchids that are good, cheap and easily grown by amateurs also find a place in this handbook which is probably without a rival in price.

Every Man's Book of Garden Flowers by John Halsham. (Hodder and Stoughton, London.) The author of this little volume published not long since, "Every man his own Gardener," which has now been supplemented by a well printed, freely illustrated cultural dictionary of 375 pages dealing with border and bedding flowers usually grown in British gardens. The arrangement is alphabetical, more or less space being devoted to the various plants according to their importance. There are 128 full paged illustrations from photographs all fairly well executed.

A Concise Handbook of Climbers, Twiners and Wall Shrubs by H. Percy Fitzgerald. (Methuen & Co., London.) About three years ago Messrs. Methuen & Co. published a neat little handbook by Mrs. H. M. Batson entitled "A Concise Handbook of Garden Flowers" and they have now still further extended the series by issuing two others uniform in style. The first of these is the one bearing the above title and is a neatly printed little foolscap octavo volume bound in cloth and printed on antique paper. The book contains 32 prettily executed process illustrations and is certainly a handy little companion volume to Batson's concise handbook of garden flowers.

A Concise Handbook of Shrubs by Mrs. Gwynn Lewis. (Methuen & Co., London.) This is another book of the same series as the preceding. It is printed and bound in the same style and published at the same price. The cyclopedic arrangement is adopted, and the book is illustrated with photo engravings. One extract from this work will show how it and the companion volume on climbers are arranged, the entries being in strict alphabetical order throughout, viz.: *Arundinaria Veitchii*. Japan. H.; 1 to 2 feet. Syns. *A. albo-marginata*; *A. kurilensis varpaniculata*; *Bambusa tessellata*; *B. Veitchii*. A free-growing dwarf species, rather shabby in winter, but extremely decorative in spring. The species given do not exhaust the hardy *Arundinarias*, but form a representative collection of the most ornamental varieties.

Batson's, Fitzgerald's and Lewis's three little volumes will form an excellent trio on the subjects to which they refer being uniform in size, and style as already mentioned.

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4000	Enchantress.	\$2.50 per 100—\$20.00 per 1000.
2000	Mrs. Patten.	\$2.50 per 100—\$20.00 per 1000.
1000	Variegated Lawson.	\$6.00 per 100—\$50.00 per 1000.
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Manager
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CARNATION SPECIALISTS

Only the best varieties grown. Rooted cuttings ready now. Our price is governed by quality.

Seed Trade

For many years the drift of population towards the cities has caused students of political economy grave concern, but for the past two or three years they have detected a lessening of the tendency in that direction, and now comes Commissioner Wieting of the New York State Department of Agriculture saying that the tide has actually set in the opposite direction—away from the cities and back to the farms. The increased value of farm products, improved methods of communication, such as rural free delivery and suburban trolley lines tapping the country districts in all directions and giving quick and easy access to the towns, have made farming more attractive than a few years ago. There is still a scarcity of farm laborers, and with the present high prices paid skilled labor in cities this condition is not likely to improve materially for a time. It is said that many abandoned farms in New Hampshire, Vermont and other eastern states are being taken up, all of which is pleasing news to seedmen and every one else interested in agriculture.

In last week's issue reference was made to the plan which Dr. Galloway, of the Department of Agriculture at Washington, has been recommending to Congress, now that the handwriting on the wall foretells the doom of "free seeds", that old abuse which has been a nightmare to seedsmen for many years. While the Doctor's plan is a long step in advance of the old one, and is in reality but a return to first principles it is an open question if Government assistance on any basis is a present day necessity. With our fine mail facilities and the prospect of a parcels post at no distant day, and with the hundreds of catalogs giving information and offering for sale every new and promising product of agriculture, it cannot be said that Government work is really needed. Still any improvement on present conditions is welcome and it may be well to give the Doctor's suggestions a fair trial. Eternal vigilance, however, will be needed on the part of the seedsmen to prevent a return to the system from which we are now seeking relief.

The catalogs for 1907 are a credit to the seed trade taken as a whole, and the fact that take novelties are offered, and exaggeration is the main feature of a few catalogs, does not detract from this fact. Some novelties of sterling merit are offered, and it may be safely predicted that they will soon become standard varieties.

C. C. Morse & Co. announce that in common with the other seed growers in California, they have agreed to change the terms of payment on contracts which have heretofore ruled in the seed business, making them 60 days' net, or 2 percent. discount for cash. This action, they claim, is made necessary on account of general business conditions on the Pacific Coast, where there is almost a famine of labor, and where nearly everything the grower buys to conduct his farms is bought on a "spot-cash" basis. They claim they are only asking that the seed dealers share a small part of their burdens by consenting to these

STORE OF THE JOHNSON SEED COMPANY.

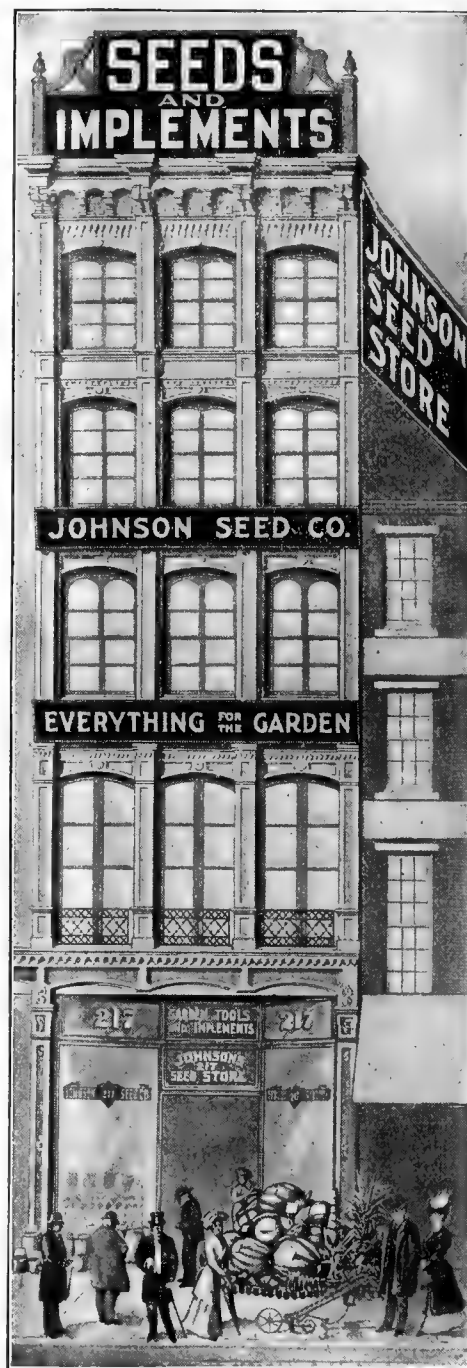
The Johnson Seed Company, of which Herbert W. Johnson of the old firm of Johnson & Stokes, Philadelphia, Pa., is president, was established in July, 1906, on the expiration, by limitation, of the last-named firm. In the catalogue just issued by the new concern Mr. Johnson says: "Before establishing the late firm of Johnson & Stokes in 1881, I served an apprenticeship of nine years with one of the best-known seed houses in Philadelphia, since which time I have taken personal and complete charge of the growing of and contracting with private growers for the entire garden seed supply of Johnson & Stokes. Thus I offer you the benefit of thirty-four years' all-round experience, as employee, partner, seed-grower, business head and manager of a successful seed business.

"It being my desire to give to several of the old and deserving employees an interest in the business, by making them stockholders, the Johnson Seed Company was formed, of which I am president and general manager; also giving, as I have done in the past twenty-five years, close personal supervision to our seed crops during growth.

"Joseph F. Bradley, for twenty-four years with the late firm of Johnson & Stokes, continues as manager of the order department of garden and grass seeds and poultry supplies. William J. Sherry, for twenty-two years with the late firm of Johnson & Stokes, also retains his old position as manager of the flower seed, bulb and mail order departments. Clifford Phillips, who has had charge of the books and accounts of Johnson & Stokes for twenty years, is secretary and treasurer of the new company. A large number of other old and competent employees also remain in their former positions."

The Johnson Seed Company has seed testing and plant growing houses at Pavonia, N. J. In addition there are the Cedarcroft seed gardens and trial grounds, which comprise 28 acres of a great variety of soils, for the testing of flowers and vegetables, and for growing and developing choice high-grade seed stocks for planting at Gardendale or on the firm's other seed farms or those of its expert private contract growers. The store illustrated

reasonable business terms. They state that their action in not sending a representative among the Trade this year and in not wishing to book advance contracts against their onion crop was not influenced in any way, shape or manner by the attitude or action of any other grower or any other seedsmen, and was decided upon on account of the general conditions only. Excepting in the matter of terms, they state positively that they have no understanding or arrangements with any other grower or growers, and they are in no combinations. Any statement



herewith is located at 217 Market street, Philadelphia. Over \$7000 has been expended on new fixtures and modern equipment in all departments.

to the contrary is wholly without foundation.

A new seed firm has just opened up in Los Angeles under the name of Morris & Snow. O. M. Morris is an old-time seedsmen here and was for a number of years with the Germain Seed Co., of Los Angeles and of late represented J. C. Vaughan on the Pacific Coast.

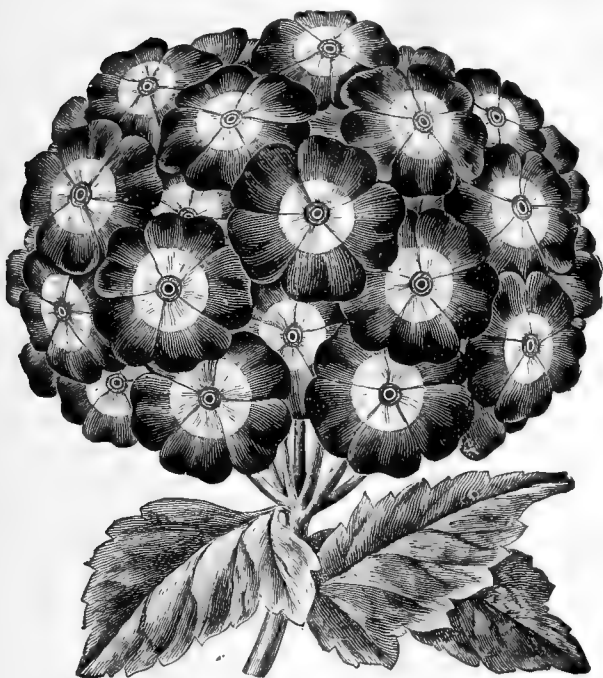
John C. Bodger of John Bodger & Sons, seed growers of Gardena, Calif., is about to leave for the East on an extended business trip.

Johnson's
High Class

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For Early
Sowing

We would call special attention to our superior strains of Petunias, Verbenas, Stocks and Pansies, which are absolutely the best procurable.



Ageratum Blue Perfection, dark blue, trade pkt. 15c., oz. 50c.
Alyssum Little Gem or White Carpet, trade pkt. 10c., oz. 30c.
Asparagus Plumosus Nanus (greenhouse grown) per 100 seeds 50c., per 1000 seeds, \$4.00.
Asparagus Sprengeri, per 100 seeds 15c., per 1000 seeds 75c., 5000 seeds \$3.00.
Candytuft, Empress, pure white, trade pkt. 10c., oz. 20c.
Candytuft, Giant Hyacinth Flowered, white, trade pkt. 10c., oz. 20c.
Carnation Marguerite, choice mixed, trade pkt. 15c., oz. 60c.
Centaurea Gymn. carpa, 1000 seeds 15c., oz. 35c.
Centaurea Candidissima, 1000 seeds 25c., oz. \$1.50.
Cobaea Scandens, purple, 1/4 lb. 75c., trade pkt. 10c., oz. 30c.
Cyclamen, English Prize, mixed (from show varieties unsurpassed) per 100 seeds 75c., per 1000 seeds \$3.00.
Ipomoea Noctiflora (Moonflower) trade pkt. 10c., oz. 50c.
Lobelia Crystal Palace Compacta, trade pkt. 25c., oz. \$1.25.
Pansy, Johnson's Kingly Collection, mixed, unsurpassed, 1000 seed 30c., 2000 seeds 50c., 5000 seeds \$1.00, oz. \$5.00.
Petunia Giants, of California, trade pkt. 50c.

Petunia, Johnson's Choice Double Fringed, per 500 seeds 75c., 1000 seeds \$1.50.
Petunia, Johnson's Giant Single Fringed, trade pkt. 50c.
Petunia Dwarf Inimitable (nana compacta), fine for pots, trade pkt. 25c., oz. \$1.25.
Phlox Drummondii Grandiflora, mixed, trade pkt. 10c., oz. 40c.
Phlox Drummondii Grandiflora, Dwarf mixed, trade pkt. 20c., oz. 75c.
Phlox Drummondii Nana Compacta, mixed, trade pkt. 30c., oz. \$1.50.
Pyrethrum Aureum, trade pkt. 10c., oz. 20c.
Salvia Splendens Bonfire, 1/4 lb. \$6.00, trade pkt. 25c., oz. \$2.00.
Salvia Splendens, 1/2 lb. \$3.00, trade pkt. 20c., oz. \$1.00.
Smilax (New Crop), lb. \$2.00, trade pkt. 10c., oz. 10c.
Stock, Dwarf, Separate Colors, trade pkt. 25c., oz. \$2.00.
Stock, Dwarf, Large Flowering, Ten-Weeks mixed, trade pkt. 25c., oz. \$1.75.
Stock, Princess Alice, Cut and-Come-Again, trade pkt. 30c., oz. \$2.50.
Sweet Peas, Up-to-Date Varieties, 1/4 lb. 10c., lb. 25c.
Thunbergia, finest mixed, trade pkt. 10c., oz. 50c.

Johnson's Giant Flowering Verbena, pronounced the finest in the market. Giant White, Pink, Scarlet, Purple and Yellow: large trade pkt. (1000 seeds) 25c., 5000 seeds \$1.00, per ounce \$1.25. Giant Brilliant mixed, large trade pkt. (1000 seeds) 20c., 5000 seeds 75c., per ounce \$1.00.

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Seeds, New Mushroom Spawn.
Extra quality — French, Japan and
Dutch Bulbs. A full line of Agri-
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for the most critical

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for florists and market gardeners is now
ready and will be sent free to all who ask
for it.

NEW CROP flower seeds are mostly all on hand
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We handle only the highest grade seeds. Com-
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Blue List of Wholesale Prices mailed
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LILIUM Auratum, Album,
Roseum, Rubrum.

Joseph Breck & Sons Corp.

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Comet Tomato

Those who force tomatoes should give
"Comet" a trial. This variety has been the
talk of gardeners around Boston the past
season. Those who have seen it growing de-
clare there's nothing to compare with it.

Seed, \$5.00 per oz. Trade packet \$1.00.

WILLIAM SIM, Cliftondale, Mass.

OUR CREDIT SYSTEM: ITS USES AND ABUSES.

By S. S. Skidelsky. Read before the Florists' Club of Philadelphia Jan. 1, 1907.

(Continued from page 237.)

And right here I wish to be understood that I am in no wise reflecting upon the honor of those who, through no fault of their own, but owing to adverse business conditions or unforeseen circumstances, were compelled to liquidate their affairs as best they could—in other words, to fail in their business. Such men deserve our sincere sympathy, and it behooves us as men and as members of a "noble craft" to do all within our power to aid them. It is the scamp, not the unfortunate victim of circumstances—the man (God save the name) who lays his trap for the unsuspecting Hollander, who scans the trade papers and picks his victims as he sees fit to suit his own nefarious designs; it is a fellow of this sort, I say, that deserves our unqualified censure and our uttermost condemnation. Aside from the moral element involved, aside from the fact that scoundrels should be discouraged on general principles, we must view the situation from the standpoint of self interest, of self protection. It is a duty which we owe to ourselves, to our fellow-members, to the community at large to turn the rascals down and out. It is high time, indeed, that we realize the situation as it affects our common interests. Often the misdeeds of one miscreant will reflect upon the honor of the innocent. It is but human nature to profit by experience. If John has victimized us, it is not likely that we will place our implicit trust and confidence in Tom, notwithstanding the fact that the latter means us no harm.

It is in instances of this sort where credit not only ceases to be a blessing and a privilege, but it becomes an absolute curse, and the sooner we realize it, the sooner we devise some means and ways whereby to put an end to such abominable practices, the better for all concerned. Our trade papers can and should help us to accomplish this worthy object, for there is no means more effective, there is no weapon more powerful than the press. Under the glare of its far-reaching searchlight human rats invariably go under cover. If credit is a privilege, that privilege must not be abused.

Fortunately, however, such men, the black sheep in our fold, are but in the minority and need not be considered in connection with our credit system, as practiced by the rank and file, the men whose honesty and honorable in-

tentions are beyond reproach, who meet their obligations in the long run.

A few weeks ago I happened to meet a fellow traveler, representing a Western crockery concern, who in the course of our conversation, remarked to me that "the florists are awfully slow pay; that while other business men will either pay upon maturity, or else will write to the house and ask for an extension of time, the florists, as a rule, do neither; that statements, letters and drafts seem to have no effect upon them. Eventually, of course, they pay, but they do so to suit their own convenience, regardless of conditions or terms." I need hardly add that there is a deal of truth in these remarks and that the man knew whereof he spoke. As a matter of fact—and I say it without any fear or reservation—in the majority of cases, terms are honored more in the breach than in the observance. To be sure, the average florist means well; he means to pay his bills—some time; he has good intentions, but—and here comes the rub—good intentions never were and never will be a negotiable asset; good intentions can never pay an account. A book full of "good intentions" is no more effective and can no more sustain the stability of a business house than a prayer of Dowie, for example, can stay the ravages of an incurable disease. Like prayer, good intentions are good enough in their place, but in this matter of fact world, unless backed by something tangible, something negotiable, good intentions are of no particular consequence.

It seems to me—and again I say it without any fear or reservation—that some of the best men in our business have but a mistaken idea as to the duties and obligations they owe to a business house. Just because they see fit to patronize a business house, it does not necessarily follow that they have the right to ignore the business terms as laid down by that house. I do not mean to convey the idea that I am an advocate of iron-clad rules, that none but strict conditions should govern all business transactions transpiring between buyer and seller. On the contrary, I believe in liberal business methods, I believe in liberal business terms. I hold that any man, worthy of credit, is entitled to all due consideration and liberal treatment, but I likewise believe that privileges of this sort should not be abused unnecessarily.

Assuming for the sake of argument that such a thing as a committee of credit men, appointed by, and acting under the direct supervision of the Society of American Florists, were possible; assuming furthermore that such a committee had the power to act, to pass judgment and to lay down rules and regulations in all matters pertaining to our business or credit system, would it not appeal to each and every one of us if this committee saw fit to pass a resolution something of the following order:

1st. Resolved, That no business house is worthy of patronage unless it manifests a liberal spirit towards its patrons.

2nd. Resolved, That no business house need or dare expect the good will of any florist in good standing unless it shows consideration for and

(Continued on page 74.)



We are in Possession

of a small consignment of

ROSES

which are in excellent condition, and will offer them while they last at

\$7.00 per 100 10 in a lot

CHAS. WOOD, catchy lilac.

PAEONIA, large red.

MARGARET DIXON, fine white, good one.

PERLE BLANCHE, white.

J. MARGOTTEIN, brilliant, glossy pink.

MAGNA CHARTA, bright pink.

P. C. DE ROHAN, fine red.

BARONESS ROTHSCHILD, pale flesh.

PAUL NEYRON, dark rose.

FISHER HOLMES, rich crimson.

PIUS IX., fine shade of red.

Wm. Elliott & Sons
201 Fulton Street
NEW YORK

SPECIMEN NURSERY STOCK

Deciduous Trees and Shrubs, Evergreens, Rhododendrons, Azaleas, over one hundred (100) acres of the choicest varieties.

SEND FOR PRICE LIST

COTTAGE GARDENS CO.
Queens, Long Island, - New York

PEONIES

\$6.00 to \$10.00 per 100

EDWARD SWAYNE
WEST CHESTER PA.

350,000 CANNAS

TRUE TO NAME

Packed 250 in a box, 250 at 1000 rate, 25 at 100 rate.

RED CANNAS		100	1000
A. Bouvier. 5 ft.		\$2 00	\$17 50
Beaute Poitevine. 3½ ft.		2 25	20 00
Chas. Henderson. 4 ft.		2 00	17 50
Crimson Bedder. 3 ft.		3 00	27 50
J. D. Eisele. 5 ft.		2 25	20 10
Explorateur Crampbell. 5½ ft.		2 00	17 50
Flamingo. 4½ ft.		2 00	17 50

PINK CANNAS			
L. Patry. 4½ ft.		2 00	17 50
Martha Washington. 3½ ft.		2 00	17 50
Mlle. Berat. 4½ ft.		2 25	20 00
Paul Marquant. 4½ ft.		1 75	15 00

ORANGE CANNAS			
Admiral Avellan. 4½ ft.		1 75	15 00
J. D. Cabos. 4½ ft.		2 00	17 50
President Cleveland. 4 ft.		3 00	27 50
Queen of Holland.		2 75	25 00
Secretary Chabanne. 4 ft.		2 00	17 50

GOLD EDGED CANNAS			
Mad. Crozy. 3½ ft.		2 75	25 00
Queen Charlotte. 4 ft.		2 75	25 00
Souv. de A. Crozy. 4 ft.		2 75	25 00

YELLOW CANNAS			
Buttercup. 3½ ft.		5 50	50 00
Comte de Bouchard. 4½ ft.		2 75	25 00
Florence Vaughan. 5 ft.		2 00	17 50
L. E. Bailey. 4½ ft.		2 00	17 50

WHITE CANNAS			
Alsace. 3½ ft.		2 00	17 50
Peachblow. 3 ft.		1 75	15 00

BRONZE CANNAS			
Black Beauty. 5 ft.		6 00	50 00
David Harum. 3½ ft.		3 25	30 00
Egandale. 4 ft.		3 75	30 00
Grand Rouge. 8 ft.		1 75	15 00
Musafolia. 8 ft.		2 75	25 00
Robusta. 6 to 8 ft.		1 75	15 00
Shenandoah. 6 ft.		2 25	18 00

ORCHID CANNAS			
Allemania. 4 to 5 ft.		2 25	18 00
Austria. 5 ft.		1 75	15 00
David Harum. 4 ft.		2 25	18 00
Italia. 4 ft.		2 75	25 00
Kronus. 5 ft.		2 75	25 00
Mrs. Kate Gray. 6 ft.		2 75	25 00
Pennsylvania. 5 ft.		2 25	20 00
King Humbert. 4 ft.		12 \$2.	15 00

Full descriptions of above and fifty other varieties of Cannas mailed free.

ELEPHANT EARS (Caladium Esculentum)

All sound and with eyes.

6 — 8 Inches in Circumference	1 50	10 00
8 — 10 " " " "	3 50	30 00
10 — 12 " " " "	5 50	50 00
12 " " " " and up	10 00	90 00

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Mention the Horticulture when writing.

Nephrolepis Whitmanii, strong plants from 2½ in. pots, \$10.00 per hundred.

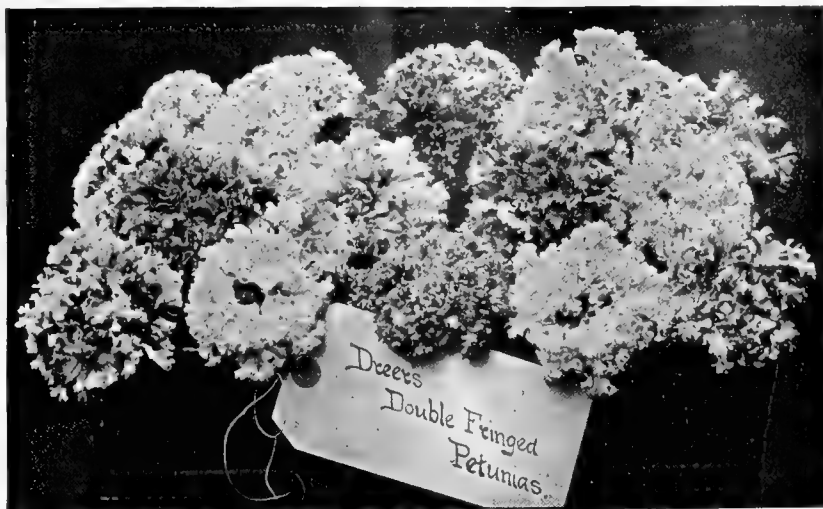
Nephrolepis Elegantissima, 2½ in. pots, \$5.00 per hundred.

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SYRACUSE, N. Y.

FINEST BULBS, NURSERY STOCK,
PALMS, AZALEAS, BAYS, ROSES,
BUXUS, EVERGREENS, and LILY
OF THE VALLEY "EXCELLENTA"
and "SUPERIOR."

JOHN SCHEEPERS & CO., New York City

DREER'S SUPERB DOUBLE PETUNIAS



For nearly half a century we have been making a specialty of **DOUBLE PETUNIAS** and our strain is accepted as second to none, either here or in Europe. We annually plant many thousand seedlings from which only the finest double fringed forms are selected for propagating purposes, thus improving the strain every season, and this year's collection is the brightest and most pleasing one we have yet sent out. We offer fifteen distinct varieties.

3-inch pots, 75c per doz.; \$6.00 per 100; the set of 15 for \$1.00.
2½ " " 60c " " 4 00 " " 15 " 75.
SEED OF OUR SUPERB STRAIN OF FRINGED PETUNIAS, Double, 75c per 500 seeds;
\$1.50 per 1000 seeds. Single, 50c per trade packet.
Our Quarterly Wholesale List offers a full line of seasonable Plants, Seeds and Bulbs.

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Now is the time to place your order for freshly imported Orchids delivered next spring. Our facilities for handling large consignments are second to none. Prices are very low, quality considered, fine stock of established Orchids on hand.

CARRILLO & BALDWIN, Secaucus, N. J.

ORCHIDS Importations, 1907

Save money and get our quotations on *Cattleya labiata*, *Trianae*, *Percivaliana*, *Mossiae*, *Mendellii*, *Schroederæ*.

JULIUS ROEHRS CO.
Largest Orchid growers and importers in U. S.
RUTHERFORD, N. J.

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Largest Importers, Exporters, Growers and Hybridists in the World
Sander, St. Albans, England
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Arrived in exceptionally fine condition the following ORCHIDS: *LAELIA PURPURATA*, *CATTELEYA HARRISONIAE*, *C. INTERMEDIA*, *C. TRIANA*, *C. LEOPOLDII* and many more.

Write for Prices
LAGER & HURRELL, SUMMIT, N. J.

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For Spring and Summer Delivery
We are giving quotations upon our entire list of South American, Philippine and East Indian Orchids. Choicest varieties of *Cattleyas*, *Oncoglossums*, *Lilium*, *Cyrtopogon*, *Phalaenopsis*, *Dendrobium* and *Vandas*. Among them the very rare *Vanda Sandersoniana* for delivery June or July.
A. HELD, 11-19 William St., New York

You'll find something worth reading on every page of this paper.

SPECIAL OFFER

We have still a few thousand *Azaleas* to offer in leading varieties, early and late sorts, from \$25.00 per 100 up to \$2.50 each.

Also a fine lot of *Palms* in all sizes, such as *Kentias*, *Arecas*, *Latanias*, *Phoenix* and *Cocos*. *Pandanus Veitchii* and *utilis*, *Crotons*, *Dracaenas*, *Neperthes*, *Aralias*, *Araucarias*, *Aspidistras*, *Ferns* suitable for dishes, in leading varieties. *Cibotium Schiedel* from \$1.00 to \$3.00 each.

Wholesale Price List on application.

A. LEUTHY & CO.,
Importers and Exporters, Growers and Dealers,
Perkins St. Nurseries, Roslindale,
BOSTON, MASS.

ARAUCARIA COMPACTA ROBUSTA, have only fine plants: 6 to 7 in. pots, 20 to 30 in. high, 4 to 5 years old, 3, 4, 5 tiers, \$1.50, \$1.75, \$2.00 each.

A. EXCELSA GLAUCA, 6 in., \$1.00, \$1.25; 7 in. specimens, finest in the world, \$2, \$2.50, \$3 each.

KENTIA FORSTEVIANA, 6 in., 25 to 40 in. high, 75c, \$1, \$1.25 each; 7 in., made up, \$1.75, \$2 each.

SCOTTII FERN, 8 in., as big as a wash tub, \$1.25, \$1.50, worth \$3; 5½ in., 40c; 6 in., 50c.

BOSTON FERNS, 6 in., 50c.

Cash with order. Goods travel at purchaser's risk.

CODFREY ASCHMANN,
Wholesale Grower and Importer of Pot Plants
1012 Ontario St. PHILADELPHIA, PA.

Asparagus Robustus

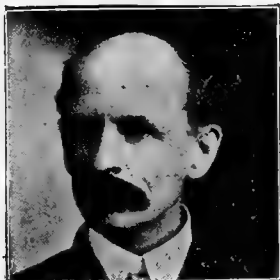
The best of all *Asparagus* for a pot plant, strong three inch stock at \$6.00 per 100, \$50.00 per 1000

ALBERT M. HERR, Lancaster, Pa.

WHITMANI

2 1-4 inch, \$10 per 100
BOSTONS

2 1-4 inch, \$3.00 per 100
H. H. BARROWS & SON, Whitman, Mass.



CALDWELL, THE WOODSMAN,
Introducer of the Wild Smilax.

Wild Smilax, \$2.50 per case.

THE ONLY PLACE WHERE YOU CAN ALWAYS GET IT.

Long Needle Pines, \$1.00 per dozen. Palm Crowns, \$2.50 per dozen. Extra nice long-stemmed Palm Leaves, \$2.50 per 100. Magnolia, \$2.50 per case, 16 cubic feet. Sheet Moss, \$2.00 per sack. Grey Moss, \$2.00 per sack. Galax, \$1.00 per 1000.

Speed a Specialty.

Write for Catalogue.

Caldwell, the Woodsman Decorating Co., Inc., EVERGREEN, ALA.

OUR CREDIT SYSTEM: ITS USES AND ABUSES.

(Continued from page 72.)

a good will of its own towards its patrons.

3rd. Resolved, That no florist is entitled to credit and to all the advantages accruing therefrom unless he realizes the need of paying heed to statements, of answering business letters, and of honoring drafts.

4th. Resolved, That any florist of good standing reserves the right to exact the most liberal terms possible, but when once agreed upon, such terms are to be honored, not in the breach, but in the observance; and

5th. Be it further Resolved, That if any florist finds himself in strained circumstances and is not able to meet his obligations in due time, such florist is obliged to write and explain matters to his creditors, said creditors to make all due allowances and to show all due consideration as the case might warrant.

One of our great shortcomings in the regulation of our credit system, it seems to me, lies in the fact of our very loose methods in dealing with the "four hundreds" of our towns. It is a matter of record that "society folks," while in nowise backward in following the dictates of fashion, are decidedly so in paying their flower bills. It is not unusual to hear Mr. So and So, a prominent man about town, occupying a magnificent mansion, driving fast horses, or a \$5,000 automobile, has not paid his flower bill since "June a year ago." Nor is it out of the ordinary to learn that Madam Blanc who gave Mr. Florist a carte blanche order some ten months ago, has left for the seashore, the mountains, or for Europe

without giving her flower bill the least thought. "Of course, Mr. Florist tells us the money is good, and it won't do at all to send a second bill, much less to press for a settlement." Mr. So and So or Madam Blanc might feel offended. No, it won't do at all. Then, there is another reason to be considered. There is a competitor around the corner who is just looking for the chance of carrying such accounts on his books for one or two years.

That our credit system is defective, antiquated and out of accord with our present business conditions is self-evident, and need not be dwelt upon at greater length here. Nor is it my object to suggest any new methods to you or to point out the remedy. I submit this question to your own good judgment, and sincerely hope that you may give it your earnest and serious consideration. It is a question that concerns us all alike, the wholesaler as well as the retailer, the man who has already made his start in life, as well as the young man who bends all his energies and all his ingenuity towards that end.

Philadelphia, the horticultural centre of the United States, a city, whence so many good things have sprung in the past, is pre-eminently fit to take up the work of reform. And this is a most opportune time to undertake a work of this sort. Our national society meets here in August. There are many good things in store for us, we may be sure of that. Some may tell us something about the ideal gardener or employer, some about conducting our stores, others about operating our greenhouses with profit. Let us hope that some good soul may tell us how to bring about the much needed reform

in our credit system, a subject well worthy of the earnest consideration of the best men in our society.

NEWS NOTES.

In the fire which occurred in the greenhouse of W. B. Perry, Cresco, Iowa, on January 1, the heating plant was destroyed and much damage done by smoke.

The J. H. Rebstock Co., Buffalo, have leased another store, 20 East Chippewa street, where extensive alterations are being made for a fine retail establishment.

The American Society of Landscape Architects hopes soon to have published Humphrey Repton's "Art of Landscape Gardening"; Thomas Whately's "Theory and Practise of Landscape Gardening" edited by Frederic Law Olmsted, Jr., and the work of Furst Puckler von Muskau, edited and translated by Samuel Parsons, Jr. It is expected that the appearance of these works will give an impetus to the art of landscape gardening.

Chas. Knauss, a very prominent Detroit citizen, who bought out Geo. M. Leadley, has started suit against Leadley to have the deal annulled. The business was represented to him as averaging \$5,000 to \$7,000 per year profit but he claims that the book accounts were padded showing that the business was not on a paying basis. Judge Hosmer has granted an injunction to prevent Leadley to put incumbrances on the flat he received in trade from Mr. Knauss. Mr. Leadley is now acting as manager for the Lachman Floral Co., which recently opened a store on Wilcox street, two blocks from Leadley's former store.

PERSONAL.

Visitor in Boston—H. Frank Darrow, New York.

D. F. Roy, whose able superintendence of the Converse grounds has made that one of the notable estates of the city, has just been appointed park commissioner for Malden, Mass.

INCORPORATED.

Furrow & Co., Guthrie, Okla.; E. H., E. E. and J. W. Furrow, incorporators, capital \$15,000.

Begonias

Fine large plump bulbs just received from Belgium.

	SINGLE				DOUBLE		
	Doz.	100	1000		Doz.	100	1000
Orange	40	2.75	23.50	65	5.00	40.00	
Scarlet	40	2.75	23.50	65	5.00	40.00	
Pink	40	2.75	23.50	65	5.00	40.00	
White	40	2.75	23.50	65	5.00	40.00	
Yellow	40	2.75	23.50	65	5.00	40.00	
Mixed	35	2.50	22.00	50	4.00	35.00	

Gloxinias

These should be planted now to have fine large plants for Easter Sales.

	Doz.	100	1000
Red and Scarlet	60	4.00	35.00
Blue	60	4.00	35.00
Bordered Scarlet	60	4.00	35.00
Bordered Blue	60	4.00	35.00
Spotted	60	4.00	35.00
White	60	4.00	35.00
Choicest Mixed	50	4.00	35.00

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SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for Samples.

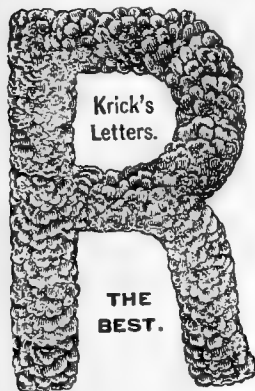
E. A. BEAVEN, Evergreen, Ala.

OBITUARY.

Charles Zimmer, Jr., died on January 4, in West Collingswood, N. J., aged 31 years.

William Donovan, for thirty-five years foreman in the Hoopes, Brother & Thomas Co., died in West Chester, Pa., January 10, aged 92 years.

The Cyclopedia of American Horticulture by L. H. Bailey, in its new and enlarged form includes six large volumes, 25,000 plant names. Price \$25.00 on easy terms. Liberal discount for cash. A needed work for the library. Order from Horticulture Pub. Co., 11 Hamilton Place, Boston.



Owing to the advance in material in the manufacture of immortal letters, I am forced to advance the price of letters on Jan. 1st 1907, as follows, viz.:

Per 100
1 1/2 x 2 in. \$2.75
2 1/2 in. 3.00

All other goods manufactured by me are not affected at this time.

Thanking you for past favors, and hoping for a continuation of the same, I remain yours respectfully,

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BROOKLYN, N. Y.

W. C. KRICK

You'll find something worth reading on every page of this paper.

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LIGHT WOOD CUT FLOWER BOXES

Sizes in Stock	per 100
3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
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6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

Write for samples and prices in car load lots.

GET MORE BOX FACTORY, Incorporated,
BELLEVILLE, ALA.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

The Park Floral Co.

J. A. VALENTINE
Pres.

DENVER, COLORADO

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

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66 Pearl Street, BOSTON, MASS.

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Cor. Miami and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

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will carefully execute orders for Kansas City and any town in Missouri or Kansas.

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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

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We ship to all points in Illinois and Iowa.

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Single Daffodils White Orchids Cattleyas

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Store open from 7 A. M. to 8 P. M.

CUT BOXWOOD 15c. per pound
50 and 100 pound cases
CATTLEYS \$50.00 per 100
WHITE VIOLETS \$1.50 per 100

S. S. PENNOCK-MEEHAN CO.

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1608-1618 Ludlow St. Store closes 8 p. m.

AMERICAN BEAUTY

and all other Roses

**LILY OF THE VALLEY
CARNATIONS**

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CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

EVERYTHING SEASONABLE IN
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EDWARD REID. Wholesale Florist
1526 Ranstead Street, PHILADELPHIA
Store Closes 8 P. M.

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Largest Wholesale House Between
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Ready January 20th.

Beauties. Carnations. Violets

Superb Illustrated Supply Catalogue just
out. Send for one.

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From 40 to 60 Growers

We can care for your cutflower wants to
advantage.

E. F. WINTERSON CO.

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51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
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	January 12				January 14		January 10	
ROSES								
Am. Beauty, Fan. & Sp.	40.00	to 50.00	to	60.00	to	50.00	to 60.00
" Extra.....	25.00	to 35.00	.....	to	40.00	to 50.00	30.00	to 40.00
" No. 1.....	10.00	to 20.00	.....	to	20.00	to 30.00	12.00	to 20.00
" Lower grades.....	6.00	to 8.00	.....	to	8.00	to 15.00	8.00	to 12.00
Bride, 'Maid, Golden Gate, F. & S. .	10.00	to 12.00	.....	to	15.00	to	12.00	to 15.00
" " " " " No. 1 & Ex. .	8.00	to 10.00	.....	to	10.00	to 12.00	8.00	to 10.00
" " " " " low grades .	3.00	to 6.00	.....	to	4.00	to 6.00	6.00	to 8.00
Liberty, Richmond, Fan & Sp.	12.00	to 25.00	.....	to	15.00	to 18.00	20.00	to 35.00
" Lower grades.....	4.00	to 8.00	.....	to	5.00	to 8.00	6.00	to 12.00
Chatenay, Morgan, Fan. & Sp.	6.00	to 8.00	.....	to	15.00	to 18.00	12.00	to 15.00
" Lower grades.....	3.00	to 5.00	.....	to	6.00	to 8.00	6.00	to 8.00
Killarney, Wellesley, Fan. & Sp. .	8.00	to 12.00	.....	to	12.00	to 15.00	12.00	to 15.00
" Lower grades.....	4.00	to 6.00	.....	to	5.00	to 8.00	6.00	to 8.00
CARNATIONS								
Fancy.....	3.00	to 6.00	.....	to	4.00	to 6.00	3.00	to 4.00
Ordinary.....	2.00	to 3.00	.....	to	2.00	to 3.00	2.00	to 3.00
MISCELLANEOUS								
Violets, Double.....	.75	to 1.00	.....	to	1.00	to 1.50	.40	to .50
" Single.....	.50	to .75	.....	to .....	.50	to 1.00	.50	to .75
Paper White Nar., Roman Hy.	2.00	to 3.00	.....	to	2.50	to 4.00	2.00	to 2.50
Tulips, Daffodils.....	3.00	to 5.00	.....	to	4.00	to 5.00	3.00	to 5.00
Cattleya.....	50.00	to 60.00	.....	to	50.00	to 60.00	35.00	to 50.00
Lilies, Callas.....	20.00	to 25.00	.....	to	15.00	to	10.00	to 12.00
Freesia.....	2.00	to 3.00	.....	to	3.00	to 5.00	2.00	to 3.00
Garageias.....	.....	to 50.00	.....	to	25.00	to 40.00	.....	to 50.00
Lily of the Valley.....	2.00	to 5.00	.....	to	2.00	to 4.00	3.00	to 4.00
Mignonette.....	4.00	to 6.00	.....	to	3.00	to 5.00	1.00	to 2.00
Adiantum ...	1.00	to 1.50	.....	to	1.00	to 1.50	.50	to 1.00
Smilax.....	15.00	to 20.00	.....	to	15.00	to	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	to	to 50.00	to 50.00
" " & Sprenger bunches .	2.00	to 50.00	to	to 50.00	20.00	to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON Flowers of desirable quality are scarce. There is no "January glut" this season and no prospect of a plethora for weeks to come. As to roses the question of quality is secondary to supply and everything sells, because there is not enough all told to go around. Carnations are also in short supply but quality is good. Violets are plentiful the big singles with 10 in. stems outclassing the doubles. Bulbous stock is increasing. There are some fine trumpet daffodils, good tulips and plenty of excellent lily of the valley.

From now until the **BUFFALO** Lenten season begins there will be only mild succession of affairs and an occasional ball or theatre party. The week just completed held only a few informal entertainments. A dull week has just ended in the flower line. Stock of all kinds and plenty of it all along the line, but sales are not flourishing, and in many instances "force" is applied. Carnations have been the most abundant: too many of the ordinary quality; the fancy varieties sold considerably well. Good quality of select Bridesmaids, Brides, Liberties and Chatenay are not too plentiful, but short Liberties are too many at times. The market has been fairly good on narcissus, Romans, lily of the valley, lilies, mignonette and freesia. Violets in good supply; plumosa and Sprengerii sprays a little scarce; smilax an over-supply.

While some of the **CINCINNATI** craft have been busy business as a whole has been very quiet ever since the holidays. If there was anything doing to speak of stock would be scarce for there is very little coming in to the commission houses, but as it is the little is an ample sufficiency. The weather has been warm and cloudy and roses have the appearance of being old and faded while carnation split the calyx and hang their heads. Bulbous stock is good but moves rather slowly. Violets are of good quality and are selling well but at ruinous price. Harrisii lilies are scarce and are grabbed up the moment they arrive. A few poinsettias are tail-enders and amount to little. Prices are gradually declining as stock deteriorates but a change in the weather will bring greater changes in the cut flower market.

The past week has **COLUMBUS** seen a fine, steady trade, at good prices. Owing to the long-continued spell of sunless weather, stock of all kinds is only in just about sufficient supply to comfortably cover the demand and everything is cleaned up daily. There are now some most excellent plants being brought in, and they sell fast at very fair rates; Primula obconica and cyclamens were especially noted. Everybody is busy, every minute.

Trade conditions are **DETROIT** very satisfactory. Everybody is busy and, while stock is daily cleaned up, it is in quality and quantity more up to the demand.

Trade has been **INDIANAPOLIS** quite active the past week. Dinners, balls and a large amount of funeral work have kept stock pretty well cleaned up. In some lines it is not any too good possibly on account of dark weather. Prices of cut flowers still remain stiff. Beauties are somewhat short in supply and quality not the best. Teas are about equal to demand, some being off color. Carnations are coming in freely, all colors being in good demand. Narcissus, Romans, lily of the valley, violets and freesia are in good supply and find ready sale. Azaleas and cyclamens are still the leading sellers in flowering plants.

Business conditions **LOUISVILLE** the previous week were very poor. There was an abundance of first-class carnations, but the demand was slow. Little interest was shown in roses and there were enough for all needs. Violets were plentiful. Other stock was in good supply but the demand was not there.

The long-continued **NEW YORK** period of dismal rainy weather which has prevailed in this section has had a very deleterious effect on almost all classes of flowers. Roses, especially, show it in soft, flabby, colorless buds; carnations give no evidence of injury in their appearance and are, as a rule, exceedingly handsome, but their keeping qualities are greatly impaired. Lilies are very inferior, as are, in fact, all bulbous crops. Receipts are light, generally, and prices are maintained

with fair steadiness on most lines. Some sales of roses at low figures are reported but the quality was of corresponding cheapness. Gardenias are more plentiful and of higher quality than ever before. Business in general is below the average for the season.

Notwithstanding the dull weather, the market **PHILADELPHIA** was fairly active last week. Red roses were in good supply, although, like all other staples, they were a little off as to color. Bridesmaids were on the scarce list. Carnations were none too good as to quality. Enchantress is still a leader in the pinks. In reds Victory has the call and outclasses such fine sorts as Robert Craig, Flamingo, etc. Among high-grade whites the White Perfection is a leader, with Queen and Boston Market best sellers among the mediums. The demand for lily of the valley is a little slow. Cypripediums and laelias are nearly done, but cattleyas of various sorts are plentiful and extra good. Violets are more abundant, and the price has dropped to about normal for the season. Daffodils are selling well. What little mignonette there is at present is very good and in brisk demand. Greens are plentiful, with the exception of plumosa. Freesias are extra fine. Lilies are not as abundant as usual, but enough to satisfy all demands.

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Am. Beauty, fan and sp.	40.00 to 60.00	40.00 to 60.00	Carnations, Ordinary	2.00 to 3.00	2.00 to 3.00
" extra.....	20.00 to 30.00	20.00 to 30.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
" No. 1.....	10.00 to 15.00	10.00 to 15.00	Violets.....	.50 to 1.00	.50 to 1.00
Lower grades.....	2.00 to 6.00	2.00 to 6.00	Lilies, Callas	10.00 to 15.00	10.00 to 15.00
Bride, 'Maid, Golden Gate, fan & sp	10.00 to 15.00	10.00 to 15.00	Gardenias	35.00 to 50.00	35.00 to 50.00
" " " " No. 1 & Ex	5.00 to 10.00	5.00 to 10.00	Lily of the Valley	2.00 to 3.00	2.00 to 3.00
" " " " low grades	3.00 to 4.00	3.00 to 4.00	Mignonette	2.00 to 8.00	2.00 to 8.00
Liberty, Richmond, fancy & special	12.00 to 25.00	12.00 to 25.00	Paper White, Roman Hy.	1.00 to 2.00	1.00 to 2.00
" " " " ordinary.....	3.00 to 10.00	3.00 to 10.00	Adiantum.....	.50 to .75	.50 to .75
Chatenay fancy and special.....	8.00 to 15.00	8.00 to 15.00	Smilax	10.00 to 15.00	10.00 to 15.00
" " " " ordinary.....	3.00 to 6.00	3.00 to 6.00	Asparagus Plumosus, strings ...	25.00 to 35.00	25.00 to 35.00
Killarney, fancy and special.....	8.00 to 15.00	8.00 to 15.00	" " & Sprenger, bunches	10.00 to 25.00	10.00 to 25.00
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F. R. Pierson Co., Tarrytown, N. Y.
Tarrytown Fern.
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FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2
Bowery, New York.

FLORISTS' FERTILIZER.

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.
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FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St.,
Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St.,
Boston, Mass.
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FLORISTS' SUPPLIES.

N. F. McCarthy & Co., 84 Hawley St.,
Boston, Mass.
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M. M. Robinson & Co., 8-11 Province St.,
Boston, Mass.
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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St.
Pittsburg, Pa.
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J. Stern & Co., 125 No. 10th St., Phila.
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H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia.
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FLORISTS' WAGONS.

Edward Higgins, 1 W. 28th St., N. Y.
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FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
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Fred C. Weber, 4326-28 Olive St.,
St. Louis, Mo.
For page see List of Advertisers.

J. Breitmeyer's Sons, Miami & Gratiot
Aves., Detroit, Mich.
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Thos. Young, Jr., 41 W. 28th St., New York.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St.,
Washington, D. C.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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Young & Nugent, 42 W. 28th St., New York.
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tinued.**

Theodore Miller, 4832 Delmar Bvd.,
St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13
Congress St., Chicago.
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William J. Smyth, Michigan Av. & 31st St.,
Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.
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FLOWER POTS.

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
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FLOWER POTS—Continued.

A. H. Hews & Co., Cambridge, Mass.
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Hilinger Bros., Ft. Edward, N. Y.
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Syracuse Red Pots.
Syracuse Pottery Co., Syracuse, N. Y.
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GALAX.

N. F. McCarthy & Co., 84 Hawley St.,
Boston.
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H. M. Robinson & Co., 8-11 Province St.,
Boston.
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Michigan Cut Flower Co., Detroit.
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N. Lecakes & Co., 53 W. 28th St., N. Y.
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Caldwell the Woodsman Decorating Co.,
Evergreen, Ala.
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J. N. Pritchard, Elk Park, N. C.
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Bronze and green galax. C. E. Critchell,
36 E. 3rd St., Cincinnati, O.

Galax leaves, leucothoe sprays, dogger
and fancy ferns, green and bronze. Write
F. W. Richards & Co., Banner Elk, N. C.

GERANIUMS.

R. Vincent, Jr. & Son, White Marsh, Md.
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GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin,
N. Y.

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Gladioli. C. Betscher, Canal Dover, O.

GLASS.

Boston Plate & Window Glass Co., Boston.
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GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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**GREENHOUSE BUILDING MATE-
RIAL.**

Lord & Burnham Co.,
1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Square,
New York.

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Hitchings & Co., 1170 Broadway,
New York.

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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St.,
Chicago, Ill.

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Weathered Co., Box 789, New York.

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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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GREENHOUSE HOSE.

Mineralized Rubber Co., 18 Cliff St., N. Y.
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HARDY FERNS AND SUPPLIES.

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H. M. Robinson & Co., 8-11 Province St.,
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The Kervan Co.,

20 W. 27th St., New York.

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Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dilger, Mgr.

Fancy Ferns.

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E. A. Beaven, Evergreen, Ala.

Fadeless Sheet Moss.

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N. Lecakes & Co., 53 W. 28th St., N. Y.
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Hardy cut ferns. L. B. Brague, Hins-
dale, Mass.

Fancy ferns, green sheet moss; leuco-
thoe sprays, etc. C. E. Critchell, 36 E.
3rd St., Cincinnati, O.

HARDY PERENNIALS.

M. H. Walsh, Woods Hole, Mass.
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HEATING APPARATUS.

Lord & Burnham Co.,
1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Square,
New York.

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Hitchings & Co., 1170 Broadway,
New York.

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John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.

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Gurney Heater Mfg. Co., 188-200 Franklin
St., Cor. Pearl, Boston, Mass.

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Kroeschell Bros., 35 Erie St., Chicago.

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HORICUM.

Hammond's P. & S. S. Works, Fishkill-on-
Hudson, N. Y.

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HOT-BED SASH.

The A. T. Stearns Lumber Co., Neponset,
Mass.

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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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JAPANESE PLANTS.

Yokohama Nurseries, 31 Barclay St., N. Y.
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KENTIAS.

Godfrey Aschmann, 1012 Ontario St.,
Philadelphia.

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A. Leuthy & Co., Roslindale, Mass.
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LEADING RETAIL FLORISTS.

Alex. McConnell, New York.

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Thomas Young, Jr., New York.

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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.

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George H. Cooke, Washington, D. C.

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Samuel Murray, 1017 Broadway,

Kansas City, Mo.

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Gude Bros. Co., 1214 F St.,

Washington, D. C.

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Eyres, 11 N. Pearl St., Albany, N. Y.

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Young & Nugent, 42 W. 28 St., New York.

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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.

Long distance telephone
connections.

Theodore Miller, 4832 Delmar Bvd.,
St. Louis, Mo.

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LEADING RETAIL FLORISTS—

Continued.

- P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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- William J. Smyth, Michigan Av. & 31st St., Chicago.
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- Wm. H. Rock Flower Co., Kansas City, Mo.
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- Park Floral Co., Denver, Colo.
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NICO-FUME.

- Ky. Tobacco Product Co., Louisville, Ky.
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NURSERY STOCK.

- John Waterer & Sons, Ltd., American Nursery, Bagshot, England.
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- Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.
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ORCHID PLANTS.

- Lager & Hurrell, Summit, N. J.
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- Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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- Julius Roehrs Co., Rutherford, N. J.
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- Carrillo & Baldwin, Secaucus, N. J.
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- A. Heid, 11-19 William St., New York.
Orchids for Spring Delivery.
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PALMS.

- A. Leuthy & Co., Roslindale, Mass.
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PATENTS.

- Siggers & Siggers, Washington, D. C.
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PEONIES.

- Edward Swayne, West Chester, Pa.
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- Peonies, 1200 sorts. Greatest list anywhere. C. Betscher, Canal Dover, Ohio.
Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

POT HANGERS.

- Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PLANT BED CLOTH.

- Mineralized Rubber Co., 18 Cliff St., N. Y.
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PRIMROSES.

- Harlowarden Greenhouses, Greenport, N. Y.
Chinese Primroses.
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- Chinese primroses, 4-in., 8c. Obconica, 4-in., 6c. In bud and bloom. J. H. Ziegler, Rowenna, Pa.

PRIVET.

- 250,000 California privet, all sizes. Send for trade list. Valdesian Nurseries, Bostic, N. C.

PRUNING SHEARS.

- Rhodes Mfg. Co., Grand Rapids, Mich.
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RHODODENDRONS.

- John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES.

- M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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- Rassett & Washburn, Hinsdale, Ill.
Rooted Cuttings of Kaiserin, Pres. Carnot, La Detroit.
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- Paul Niehoff, Lehighton, Pa.
Rose Aurora.
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- Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1/4 in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to the late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SEEDS.

- T. J. Grey & Co., 32 So. Market St. Boston, Mass.
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- Joseph Breck & Sons, 51 and 52 N. Market St., Boston, Mass.
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- W. Atlee Burpee & Co., Philadelphia.
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- J. M. Thorburn & Co., 33 Barclay St., New York.
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- Henry A. Dreer, Philadelphia.
Superb Petunia Seed.
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- A. T. Boddington, 342 W. 14th St., N. Y.
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- H. F. Michell Co., 1017 Market St. Philadelphia, Pa.
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- James Vick's Sons, Rochester, N. Y.
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- W. W. Rawson & Co., 5 Union St., Boston.
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- Hjalmar Hartmann & Co., 12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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- Rickards Bros., 37 East 19th St. New York.
Asparagus Plumosus Nanus Seed.
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- Johnson Seed Co., 217 Market Street, Philadelphia.
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- Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

SHEEP MANURE.

- Pulverized Manure Co., 31 Union Stock Yards, Chicago.
Wizard Brand.
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SHEET MOSS.

- E. A. Reaven, Evergreen, Ala.
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SPHAGNUM MOSS.

- Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIRAEA.

- J. M. Thorburn & Co., New York.
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- H. F. Michell Co., Philadelphia.
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- F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

STEAM TRAP.

- E. Hippard, Youngstown, O.
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TOMATO SEEDS.

- Wm. Sim, Cliftondale, Mass.
Comet Tomato.
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VENTILATING APPARATUS.

- Lord & Burnham Co., 1133 Broadway, New York.
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- Pierson U-Bar Co., 1 Madison Sq., N. Y.
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- Hitchings & Co., 1170 Broadway, N. Y.
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- John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
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- Weathered Co., 46 and 48 Marion St., N. Y.
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- Foley Mfg. Co., 471 W. 22nd St., Chicago.
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- J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VINCAS.

- 10,000 vincas 2 1/2 in. fine, \$2.50 per 100; \$20.00 per 1000. R. Cuttings same, \$1.00 per 100; \$7.00 per 1000. Cash, please. Benj. Connell, West Grove, Pa.

VIOLETS.

- H. K. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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WILD SMILAX.

- E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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- Caldwell the Woodsman Decorating Co., Evergreen, Ala.
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WIREWORK.

- Reed & Keller, 122 W. 25th St., New York.
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- Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.
- Wire work, all kinds. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.
- The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

WHOLESALE FLORISTS.**Boston.**

- N. F. McCarthy & Co., 84 Hawley St., Boston.
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- H. M. Robinson & Co., 15 Province St., Boston.
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- George A. Sutherland Co., 34 Hawley St., Boston.
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- Welch Bros., 226 Devonshire St., Boston.
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- Wm. F. Kasting, 383-37 Elllicott St., Buffalo, N. Y.
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Chicago.

- Chas. W. McKellar, 51 Wabash Av., Chicago.
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- Peter Reinberg, 51 Wabash Av., Chicago.
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- A. L. Randall Co., 19-21 Randolph St., Chicago.
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- E. F. Winterson Co., 45-49 Wabash Ave., Chicago.
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- Poehlmann Bros. Co., 35 Randolph St., Chicago.
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Detroit.

- Michigan Cut Flower Exchange, 38 & 40 Miami Av. Wm. Dilger, mgr.
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- Charles H. Tottv, Madison, N. J.
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New York.

- J. K. Allen, 106 W. 28th St., New York.
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- Wm. Stuart Allen Co., 53 W. 28th St., New York.
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- C. W. Eberman, 53 W. 30th St., New York.
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- J. S. Fenrich, 110 W. 28th St., New York.
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- Ford Bros., 48 West 28th St., New York.
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- H. E. Froment, 57 W. 28th St., New York.
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- Alex. J. Guttman, 43 West 28th St.
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- E. C. Horan, 55 West 28th St., New York.
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- Phillin F. Kessler, 55 W. 28th St., New York.
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- A. H. Langjahr, 55 W. 28th St., New York.
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- James McMann, 42 W. 28th St., New York.
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- Chas. Millang, 50 West 29th St., New York.
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- John T. Rannor, 49 W. 28th St., New York.
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- W. F. Sheridan, 39 W. 28th St., New York.
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- Treadwell & Schenck, 44 W. 28th St., New York.
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W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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For page see List of Advertisers.**Edward Reid, 1526 Ranstead St., Philadelphia, Pa.**
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J. R. Murdoch & Co., 545 Liberty St. Pittsburg, Pa.
For page see List of Advertisers.**Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.**
For page see List of Advertisers.**New Offers in This Issue.****ARTIFICIAL CARNATION CALYX****Maxfield & Dimond, Warren, R. I.**
P. O. Box 304-D.
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For page see List of Advertisers.**BEGONIA AND GLOXINIA BULBS.****H. F. Michell Co., Philadelphia.**
For page see List of Advertisers.**BULBS: NURSERY STOCK.****John Schoepers & Co., 26 Old Slip, N. Y.**
For page see List of Advertisers.**CARNATION CUTTINGS.****Scheiden & Schoos, 60 Wabash Ave., Chicago.**
For page see List of Advertisers.**CARNATION BEACON.****Peter Fisher, Ellis, Mass.**
Cottage Gardens Co., Queens, N. Y.
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J. A. Millang, Mgr.
For page see List of Advertisers.**CARNATIONS, WINSOR, WHITE ENCHANTRESS, HELEN M. GOULD.****The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.**
For page see List of Advertisers.**FORCING PLANTS, BAYS, KENTIAS, ROSES.****Bohlink & Atkins, Rutherford, N. J.****FLOWER POT HANDLE AND HANGER.****W. C. Krick, 1164-66 Greene Ave., Brooklyn, N. Y.**
For page see List of Advertisers.**GRAFTED ROSES.****Robert Scott & Son, Sharon Hill, Del. Co., Pa.**
For page see List of Advertisers.**New Offers in this Issue—Continued.****GREENHOUSE HEATING.****W. H. Lutton, West Side Ave., Jersey City, N. J.**
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For page see List of Advertisers.**HOT WATER CIRCULATOR.****Holly-Castle Co., 170 Summer St., Boston.**
For page see List of Advertisers.**NEPHROLEPIS WHITMANII AND ELEGANTISSIMA.****P. R. Quinlan, Syracuse, N. Y.**
For page see List of Advertisers.**ORCHIDS FOR SPRING AND SUMMER DELIVERY.****A. Held, 11-19 William St., New York**
For page see List of Advertisers.**ROSES.****Wm. Elliott & Sons, 201 Fulton St., N. Y.**
For page see List of Advertisers.**SELECTED CARNATION CUTTINGS.****Cottage Gardens Co., Queens, N. Y.**
For page see List of Advertisers.**THE PINE BARK BEETLE.**

The government is about to take drastic steps to stop the ravages of the pine bark beetle that is proving so destructive in some of the forests reserves. All insect-infested timber, whether standing or cut is to be sold at once, and the forests carefully cleaned from the debris of fallen or cut timber, and the refuse burned. So far the destructive beetle has confined its ravages to the timber in South Dakota, but like all other evils, unless speedily checked it will extend to other parts of the country, and it is to prevent this the government is taking such active and drastic steps. The government is now seeking buyers for the infested timber, its commercial value not having been destroyed, or even materially injured, and the opportunity presents itself for the purchase of timber at very low prices.

LIST OF PATENTS.

Issued January 8, 1907.

- 840,679. Hand Cultivator. Gustavus H. Yarbrough, Waverly, Tenn.
- 840,700. Shovel Plow. Robert L. Kilpatrick, Hempstead, Texas, assignor of one-third to J. D. Harvey and A. C. Browne, both of Hempstead, Texas.
- 840,755. Draft Equalizer. Benjamin J. Detrick, and Ira A. Weaver, Springfield, Ill., said Weaver assignor to said Detrick.
- 840,780. Plow. Dedfor D. Ligon and William E. Jennings, Robard, Ky.
- 840,835. Convertible Hand Plow. John T. Foulke, Richmond, Ind.
- 840,839. Harrow. Frank Germon, Leadville, Colo.
- 840,897. Corn-Planter. Thomas M. Bailey, Madison, Ala.
- 840,898. Cultivator. George E. Barrett, Duluth, Minn., assignor of one-half to John Z. Miller, Superior, Wis.
- 840,903. Weed Digger. Joseph A. Bucknall, Detroit, Mich.

NEW PLANTS.

We all appreciate the good qualities of Azalea Vervaeana—so much esteemed for Christmas as well as for Easter. Its only defect is, perhaps, a lack of lustre, and an improvement in that direction comes to us in the new variety Prohilda Mathilda, a sport from Vervaeana with snow white flowers except upper quarter sprinkled crimson shading to a deep stain towards the heart. Very much brighter and finer in every way than the parent. Raised by a Belgian grower who has already been offered almost fabulous inducements by American houses for control of the stock. Another good early is Jean Peters, a lovely bright ruby. Madame Pedrick is a clear pink and a welcome addition. It resembles Van Der Cruyssen but is brighter, more shapely, and freer. The raisers of this variety could easily sell a hundred thousand in the United States.

The new Dracæna Pere Chavon is certainly a magnificent thing—foliage twice the size of terminalis and equally as brilliantly colored.

GREENHOUSES BUILDING AND PROJECTED.

New.

Norton, Mass.—M. G. Lincoln, one house.**Greenville, Me.—W. M. Shaw, one house.****Natick, Mass.—Andrew Anderson, one house, 70 ft.****W. Bantam, Conn.—Eugene Small, one house, 18x85.****Marysville, Wash.—C. D. Morrison, one house, 20x100.****Woodcliff, N. J.—Woodcliff Floral Co., two houses, 26x158.****Nahant, Mass.—George A. James, one house and potting house, each 100 ft. long.**

Additions.

Lockport, N. Y.—Charles Reakoff.**Abington, Mass.—H. F. Eburn, enlarging.****CATALOGUES RECEIVED.****J. M. Thorburn & Co., New York.**
1906th annual catalogue of high-class seeds. Profusely illustrated.**ANCHOR****GREENHOUSE HOSE** stands the racket.

Protect your plants with our

PLANT BED CLOTH**Mineralized Rubber Co.****18 Cliff Street, New York****Anything of Value**

to the profession

CAN BE SOLD

through advertising in

Horticulture

Tobacco Paper "NICO-FUME" LIQUID

IS THE
STRONGEST,
BEST PACKED,
EASIEST APPLIED.

24 sheets.....	\$ 0.75
144 sheets.....	3.50
288 sheets.....	6.50
1728 sheets.....	35.10

**Furnishes the
Most Nicotine for the Money!**

... Manufactured by ...
THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

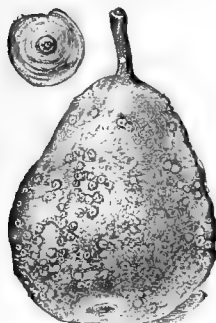
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Yours respectfully,

H. J. HINDS.

Glenside, Pa., March 31, 1906.

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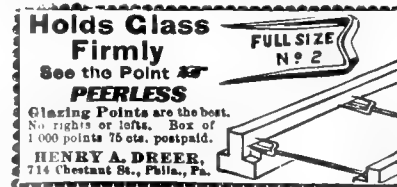
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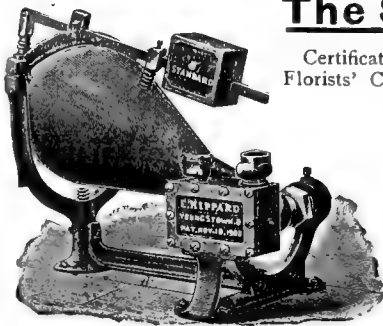
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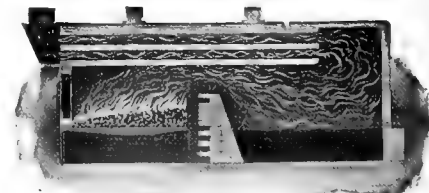
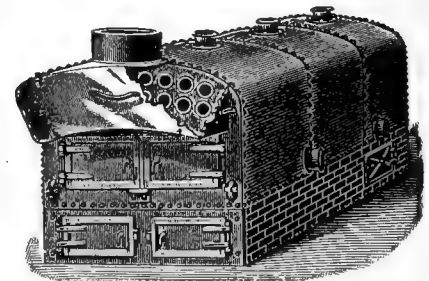
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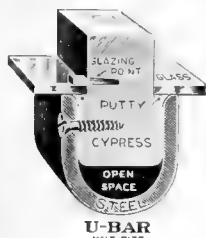
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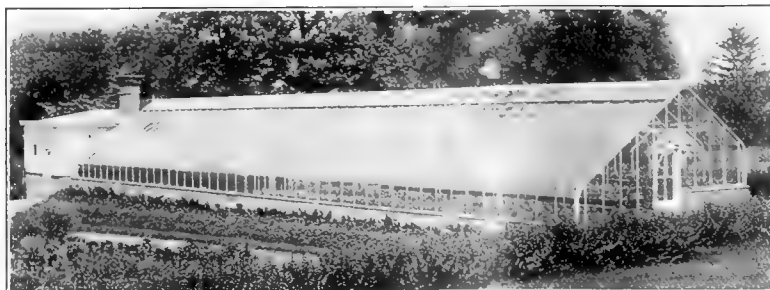
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Building, Fourth

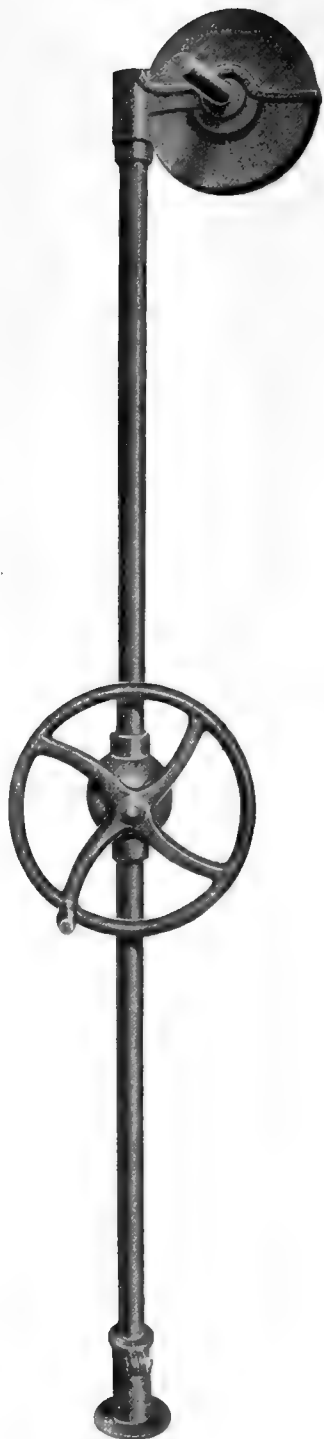
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HORTICULTURE

Vol. V.

JANUARY 26, 1907

No. 4



CYPRIPEDIUM INSIGNE

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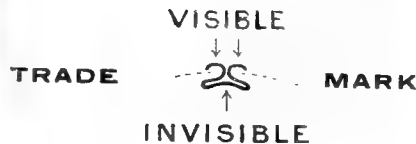
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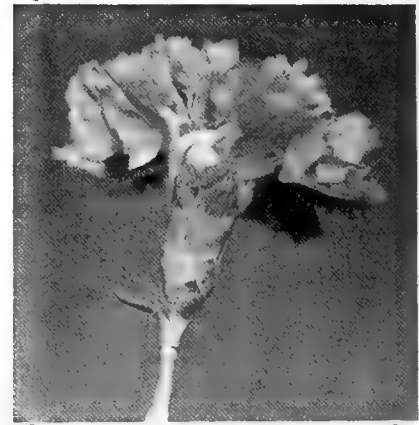
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Winsor, White Enchantress and Helen M. Gould

ONE way to judge carnations is to see them on the exhibition tables. A better and more convincing way is to see them growing; therefore we cordially invite all carnation growers to visit us and judge for themselves regarding the superiority of the above-named sorts.

Our carnation houses are at **Scarborough-on-Hudson**, (not Tarrytown). Friends who desire to visit us can take the N. Y. C. & H. R. R. R. from New York. Trains leave there every half hour. Scarborough is the first station north of Tarrytown. Our grounds adjoin the station, and the greenhouses are about five minutes' walk from the station.

We are growing **25,000 plants of Winsor** for cut flowers, alone, for the New York market this season, which shows the faith we have in it. This will also enable visitors to see it growing in quantity, and besides that, will give us enough plants to get a great abundance of fine, healthy cuttings without over-propagating. We have already booked a large quantity among the large growers, and anticipate for this variety the largest sale of any new carnation that has ever been distributed, as large growers who have seen it are enthusiastic in regard to its value. Those who have seen it have immediately placed large orders for it, so we recommend those who have not ordered to place order without delay, so as to insure early delivery.

For full description of these three valuable novelties, see our wholesale price list. Of course, we shall have all of these varieties on exhibition at Toronto, where they can be seen, and where they will speak for themselves.

Wholesale Prices Rooted Cuttings Spring, 1907

WINSOR.—Soft silvery pink. The best color, best keeper, best shipper, best seller—best every way. \$12.00 per 100; \$100.00 per 1000.

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BEACON.—Orange-scarlet. A vigorous, healthy grower, of ideal habit. A profuse bloomer, with long stems. \$12.00 per 100; \$100.00 per 1000.

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MELODY.—Daybreak sport of Lawson, about the same color as Enchantress, but much brighter, and does not fade like Enchantress. Also a much better keeper and shipper. Those who grow the Lawson varieties exclusively will find this very valuable and desirable, because it gives an improved Enchantress color, which is so popular, and at the same

time can be grown in the same house with the other Lawsons. An extra fine thing in every way and in great demand. A great addition to the Lawson class. \$10.00 per 100; \$75.00 per 1000.

ROSE PINK ENCHANTRESS.—A sport of Enchantress. Color, dark rose pink. \$7.00 per 100; \$60.00 per 1000.

WHITE PERFECTION.—A novelty of 1906, and a variety for which there is a great demand this season. A third larger than Lady Bountiful and a more perfect flower. \$6.00 per 100; \$50.00 per 1000.

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RED LAWSON.—A fine red. Our stock of this is superior to many stocks of Red Lawson that we have seen. \$4.00 per 100; \$30.00 per 1000.

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WHITE LAWSON.—An excellent white. \$4.00 per 100; \$30.00 per 1000.

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MRS. M. A. PATTEN.—\$3.00 per 100; \$25.00 per 1000.

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Ornamental Conifers

(Continued.)



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Dana Island—Height, 40 ft.

LARIX (LARCH OR TAMARACK)

Larix, so useful for its wood, is found in the most northern part of Europe, Asia and America. They are the last trees found in the far north therefore they are all very hardy. The gracefulness of their more or less pendant twigs and the light green of their foliage especially in the growing time, makes them very attractive objects on the most exposed hillsides, where they can be planted in masses; also when isolated they make very ornamental trees. There are only a few species and from a horticultural point of view there is very little difference between them. From America we have *L. occidentalis*, the northwest larch. *L. laricina*, or *Americana*, the common northeast tamarack. *L. Lyallii* is an alpine tree which grows in the northern part of the Sierras. *L. Europæa* is the European larch which has a pendulous and a glaucous form. *L. siberica* is found in north Russia and west Siberia. *L. dahurica* is found in east Siberia and *leptolepis* grows in Japan. *L. Griffithii* from Himalaya is the most delicate and also the most difficult to grow. It has long pendant branchlets. Larches are all deciduous and take a golden yellow color in the fall before dropping their needles.

Pseudo-larix, or *laricopsis* (a new name) *Kaempferii*, the Chinese golden larch, is a beautiful large-growing tree which has the needles larger than those of the other larches, the branchlets are not drooping and the appearance of the tree is of a more horizontal spreading habit. In the fall the yellow color of the needles is more intense.



CEDRUS ATLANTICA GLAUCA
at Doseris, L. I.—Height, 30 ft.

CEDRUS

Through their foliage the cedars have some resemblance to the larches, only their needles are stiff and more persistent. Cedars are the most magnificent trees where they can be grown.

C. atlantica from Africa is the only one about hardy in our climate, and it requires a sheltered place. The *glauca* and *aurea* forms are fine trees and a sight on a big lawn where they can be sheltered from north and northwest winds. Like most of the conifers, trees of a certain size which ripen well their growth stand severe winters better than young plants which grow late through the season and have their wood not ripened when frost comes.

C. Libani (Cedar of Lebanon) is the oldest known species. While *C. atlantica* has an erect habit of growth this one extends its limbs in a more horizontal way. Those who have seen them growing in England know what a majestic looking tree this is; but it is less hardy than the Atlas cedar.

C. Deodara, the largest growing and, when young, the most graceful of the three. There are a few forms of it. We had a dozen imported trees which grew well for a few years; they were about twelve feet high, when the winter 1899-90 (I think it was) killed them all and many other things. So I do not think they can be grown further north than Washington, or may be Philadelphia in selected situations.

Am. D. H. Am.

(To be continued.)

HORTICULTURE

VOL. V

JANUARY 26, 1907

NO. 4

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292
 WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE
 One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 05
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 Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass.
 under the Act of Congress of March 3, 1879.

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A great loss The death, recently, of two generous patrons of horticulture, Mrs. Robert C. Hooper and Mr. George F. Fabyan, is a severe loss to the Massachusetts Horticultural Society, whose plant exhibitions they supported with frequent contributions, encouraging their garden-

ers to take an ambitious interest in the competitions and exercising a potent influence on the community through the beautiful estates which they maintained. Mr. Fabyan was a trustee of the Society at the time of his death.

An important horticultural enterprise

The sending of Mr. E. H. Wilson to China by the Arnold Arboretum is the most important and far-reaching horticultural enterprise that has ever been started in America. Mr. Wilson, who is young and enthusiastic and has acquired through his five years' previous experience a thorough familiarity with the Chinese flora, may be expected to add much to the knowledge of the floral and arboreal wealth of this little-known land and especially in the line of new plants likely to be hardy in this climate.

Work for the peony specialists

Peony enthusiasts are coming to realize more and more the formidable task they have before them in bringing into any semblance of order and reliability the tangled up lists and still more tangled up stocks in nurserymen's hands. The long time required for adequate testing and comparisons in the case of the peony is one of the greatest drawbacks in the work of straightening out identities and calls for a large measure of patience and perseverance as well as a considerable self-sacrifice on the part of those engaging in it. One first step should be to apprise dealers at home and abroad that a watch is set and that whatever of loose practice may have prevailed hitherto it will be tolerated no longer. This will be some assurance that reform is really under way.

Mechanical watering

Mechanical watering comes to the surface again in the paper by Mr. Wittbold before the Carnation Society and in Mr. Finlayson's notes in this issue. There are two systems now seeking approval of the practical horticulturists and each finds friends ready to approve as well as critics ready to condemn. The advancing demand for plants of difficult culture in greater variety than ever before obtainable in this country calls for the highest skill of the plantsman and careful individual watering with the antiquated (?) watering pot is likely to prevail in this line, at least, for many a year to come. Whether wholesale watering in the case of entire houses of one specialty is to displace all other systems is something that will be decided not by claims nor by criticism but by experience and that takes time.

A good plant traduced

A western contemporary is out with an unfavorable criticism of the keeping qualities of Begonia Gloire de Lorraine. As on a number of occasions in the past, we are glad to say a word in refutation of what seems to us an unjust disparagement of one of the best flowering house plants ever introduced. We have in our window at the present time a plant of

this begonia well-covered with foliage, flowers and buds. This plant was brought from Cincinnati by Mr. Peterson last fall and used by him as a sample in taking orders. After he had got through with it, in Boston, he presented it to the editor of HORTICULTURE who, after it had stood several days in the office, took it home. It has since done acceptable duty on the Thanksgiving table and Christmas table and is still in good order. What other begonia or, indeed, what other flowering plant is there that would have withstood so well a like experience? We know of none. Our columns are open to anyone having a reply.

Cypripedium insigne

Our frontispiece shows a group of this useful orchid in bloom at the greenhouses in charge of M. J. Pope at Naugatuck, Conn. These are not selected from a large number but are the only plants grown there—twenty in all. The pots are from 5-inch to 10-inch and carried in the aggregate 385 blooms. Our object in giving them prominence at this time is to impress on those who are interested the commercial value of *Cypripedium insigne* for cut flowers purposes.

Mr. Pope writes as follows regarding their care:

"These plants have not been disturbed since May, 1902, when they were potted in a mixture of turfy loam, fern root and lumps of old dried cow manure. By this time there is little else but root in the pots, and some of the plants will get another shift this winter. All through the summer, until the first flowers expand, the plants are watered once or twice a week with liquid cow and horse manure combined beside their regular daily syringing overhead.

"After the flowers are all open, the plants are removed to cooler quarters for about two or three months, when water is given very sparingly. The rest of the year they are growing with the cattleyas, where the temperature is from 58 to 65 degrees at night, according to outside conditions, and correspondingly higher during daytime.

"A record of the number of flowers produced since re-potting in 1902 may not be out of place here as showing that it is not wise to disturb cypripediums unless absolutely necessary: In 1902, 75 flowers; in 1903, 156; 1904, 226; 1905, 335; 1906, 385; a total of 1177 in five years. Supposing the blooms had been sold at 10 cents apiece, this would have realized the sum of \$117.10 from twenty plants occupying 45 square feet of benchroom."

Let Horticulture Work For You

If you have anything to sell to florists, gardeners, park superintendents, seedsmen, let this paper sell it for you. It is the cheapest representative you can send out for it reaches thousands of good buyers once a week and the cost is only a trifle. Tell your story in HORTICULTURE'S advertising columns and the best people in the profession will surely see it and read it.

Schlechtes Wetter

Should I happen to come across a Fatherlander of the "rose-house wisdom" variety, and ask his opinion as to the suitability of the weather of the month just past in relation to his business, I am morally certain that I would be answered in the above words, which, for the benefit of those who are not so versed in the German language means "bad weather," a conclusion I cannot other than assent to; for a more sunless, cheerless and changeable weather for a December month would be hard to find. It therefore must have been a trying month for my fellow craftsman, private as well as commercial. While the latter may feel the result of a sunless sky more keenly as affecting more directly the weapons for chasing the proverbial wolf from the door, it does not follow that the former though receiving a stated salary at the end of each month, sunshine or not, provided he otherwise behaves himself, is less affected by weather conditions, for it does affect him as well as his brother florist, if not in the same spot, in that which gives cheer and pleasure to both.

To be assured of a bountiful supply of presentable flowers all around at the yule-tide season, means to the gardener that he will be in good humor for the next six months at least, regardless of salary, and I suppose the florist is closely akin to him in this respect, as he too rises aloft beyond the mere pleasure a bank account affords. But here comes the rib that I had in mind when I started this note. Anxiety on the one hand to procure the wherewithal to successfully circumvent the aforesaid wolf while the season is propitious and on the other hand to secure a large supply simply to please, has an element of some danger. And in this direction I would say, that it is the wise person, not to say experienced, that does not yield to temptations, particularly while Nature is against him, for what at best can be but a fleeting advantage.

The person that takes his plants through with the least constitutional weakness under prolonged adverse circumstances as prevailed in the month just past, or any other month similarly disadvantageous, is one who knows his business, and his assets are more likely to be continuous and bulky at the end of the year than they would be had he undermined the vitality of the stock by overforcing.

To provide against, and meet as well as that can be done, the bad effect of a lengthened continuance of such weather as we have been contemplating, calls forth the subtlest skill of the plantsman's art, and I know of no more scientific plan in plantsmanship than that which relates to airing and watering under all conditions, and especially the conditions that I have been relating. Those are the situations calculated to test the true merits of the plantsman, when, I divine, our friend, the "mechanical fellow," would necessarily take a back seat, or otherwise go through an uncommon course of complicated schooling.

H. Imbison

AMERICAN CARNATION SOCIETY.

The Convention at Toronto One of the Largest Gatherings in the History of the Society.—The Exhibition.

The opening session of the convention at 7.30 P. M., Wednesday, was one of the largest gatherings in the history of the American Carnation Society. Hon. Mortimer Clarke, Lieutenant-Governor of Ontario, delivered a most cordial address of welcome, dwelling upon the close union of sentiment between the people of the United States and Canada, of which the carnation is a fitting symbol, and hoping for a still closer union. Alderman J. J. Graham, chairman of the civic reception committee and R. J. Score also spoke in similar vein. C. W. Ward, in responding on behalf of the Carnation Society, spoke of the vast resources of Canada and the high qualities of Canadian people and predicted future greatness in all lines of horticultural and agricultural development. President J. H. Dunlop was then introduced and after a few cordial words of welcome read his address which was received with approving applause.

President's Address.

Ladies and Gentlemen, Members of the American Carnation Society:

It is with more than ordinary pleasure I welcome you to this the sixteenth annual convention of this progressive and important organization. At our last convention of Boston words of welcome were extended by His Honor, the Mayor, by the secretary of the Massachusetts Horticultural Society, in the absence of its president, the president of the Gardeners' and Florists' Club and replied to by members of this society, men who have by their untiring zeal endeared themselves to us and who have by perseverance and industry advanced to that high plane which few of us hope to attain. I referred to the Boston welcome on account of the historical connection and the traditional history of that good old Commonwealth. But you are welcomed tonight to one of the newer or more modern cities, one that is only beginning to feel the impulse of commercial activity and has not that traditional history of which our last convention city could boast, but none the less hearty and loyal. Toronto welcomes you with the true British hospitality that is ever found where the Anglo-Saxon tongue is spoken. Let us here express this wish: May the ties that bind the two greatest English-speaking nations, of which Canada is a part, and I may say the brightest gem in

the British Crown, never be severed, but be welded more closely together in the bonds of Love, Esteem, Friendship and Commercial Union.

We feel highly honored in having you with us on this the first time that the society has met outside of the United States, more especially so as the membership from the Dominion has been very small. It was not the numerical strength of the Canadian members that brought the convention to Toronto, but the good feeling, the magnanimous spirit and the desire to assist in showing the people of this country the progress and improvement that has taken place in the development of the Divine Flower. It is of the greatest importance that the educational feature of such an exhibition of carnations as we have in the Exhibition Hall should be taken advantage of, not only by those who are growing them, but also by the public, who are our best critics, for it is they who are our support and to them we look for approval of our product; certainly, if the public do not patronize our wares, it matters not how much we cherish any particular variety. It is they we have to please, and they whom we should encourage to see the flowers in all stages of development at our greenhouses, and to express their opinion on what we are producing, criticizing as it were, thus becoming familiar with the varieties by name, color, etc., and the public like to be consulted and have a knowledge of the different varieties.

We have long looked forward to this time when we could present such a magnificent show and bring to our city the men who have been instrumental in producing such grand flowers, men who are revered by every lover of the Divine Flower, and whose names will ever be remembered as those who by their love and devotion to their chosen calling have given to the world the best that has ever been.

There are not many things that I can speak of in this address that would be considered new, as we on this side feel ourselves students and desire to be taught, but there is one matter of particular importance to all, and I feel that if we can we should find a solution or formulate a plan by which we can put it in operation in an intelligent and practical way, and that is, What should qualify a new variety for the American Carnation Society's certificate of merit? What has been said and done at previous conventions along this line has hardly been satisfactory, or has been found to be defective in some particular. At our last convention at Boston a committee was named to bring in a report, but it was received at the last afternoon session and too late to receive that attention a question of so much importance deserves. It should be considered both from the originator's and the buyer's standpoint, both should be considered.

The man who devotes his time and brains to the hybridizing of carnations should receive every encouragement from the society, also the grower who buys the new varieties largely from the description of the originator and from the awards that have been made both from this society and the various exhibitions at which the variety was shown. It may have scored high as seen at the various exhibitions, but there may be some of the most essential points of a first-class commercial variety lacking. The question is how are we to arrive at a solution? How are we to ascertain if the variety contains the points that go to make up a profitable variety for the average commercial grower? These should be carefully considered, and when the certificate is awarded it should be a guarantee that these points have been ascertained and proven. The more closely we guard our awards, the more closely we scrutinize these points, so much more will the trade generally rely confidently on the endorsement of this society and should enhance the value of any variety having the endorsement of this society. But let us guard jealously the awarding of this certificate and let it be all that the name implies. We know how closely every award is made, how closely every point is scrutinized in the old land, and as a result the award is accordingly prized by the recipient, for he knows his product has been deserving or it would not be awarded.

Another matter that should receive our attention is the increasing work of the secretary. With the growth of the society his work has increased in a much greater ratio. During the short time I have held office as your president I know the amount of correspondence must be considerable, as from my end he has had reason to know we were working. There is the compiling of the premium list, soliciting advertisements, etc., the compiling of the annual report and the preparatory work for each convention, etc. It might be well for this meeting to consider the question and suggest some means of lightening the work either by granting an assistant for a stated time each year or the purchase of labor-saving appliances and not to exceed a certain sum to be named by the society. Above all, let us recognize our secretary's ability and make him feel by our words and actions that we appreciate his services. Nothing makes one feel more energetic than to know he has your sympathy and support.

This convention will have served its purpose if it stimulates a still greater interest in the Divine Flower in our broad Dominion. We have not been as quick to recognize the importance of the carnation as our American brethren, and for that reason the development has not been as great as we would desire, and we hope that in visiting the greenhouses of this sec-

tion where carnations are grown that you will criticize our work and not be slow to point out our mistakes. We note with interest the popularity of the carnation in England, also that the American varieties are being largely grown, and from the comments in the horticultural press the varieties are giving very general satisfaction.

I trust that your stay with us may be both pleasant and profitable and thank you for the honor conferred on me by electing me your president, and before concluding I also wish to thank the gentlemen composing the different committees who have worked so harmoniously and zealously in completing the arrangements for this convention.

Secretary Herr followed with his annual report:

Secretary's Report.

Mr. President and Fellow Members:—

Your secretary reports having issued the usual printed matter during the year and mailing the same as issued.

There were two deaths reported to the secretary during the year—those of Mr. Lewis Ullrich, of Tiffin, Ohio, and J. L. Dillon, Bloomsburg, Pa., the first two that have been reported during my term of office. Mr. Valentine, of Denver, Col., several years back, made some remark about a suitable offering being sent in such cases. There was no action taken in the matter, and I would suggest that an offering be adopted as representative of this society, and upon similar conditions arising again, the secretary be empowered to wire a florist in the city of the deceased, to send such offering with the society card.

Like most human beings, your secretary is subject to errors, lapse of memory and the losing of important documents, perhaps more so than the most of them. The last year three of these errors happened to get into our premium list: First, the substitution of the name of Eugene Dailedouze for that of Wm. Scott, as judge; second, the use of the name of O. R. King Co., Ltd., instead of the King Construction Co., in the award of a special; and last, but not least, the loss of copy for a half-page ad. and a \$10.00 special, and the non-appearance of either in the premium list. When my attention was called to this, I offered to have ad. and premium both printed on a postal card and send it out to every member, at my own expense, but this offer was not accepted.

The advertisements in the premium list amount to \$231.50. These advertisers are worthy of your patronage. This is the only means whereby we can secure the revenue necessary for the expense of this society, expenses that are increasing faster than the membership. To secure these advertisements, your secretary wrote almost three hundred personal letters, in addition to the printed notices sent all members, and the showing does not measure up with the amount of time and labor expended. Every member of this society who has anything to advertise should use this premium list; it is not money thrown away and is the only contribution the society asks, aside from your annual dues of \$2.00.

Your president, Mr. J. H. Dunlop, has given the secretary much valuable assistance during the year, and has certainly well earned the honor attached to his office.

Treasurer Dorner rendered his financial statement for the year.

Treasurer's Report.

PERMANENT FUND.

Amount reported Jan. 20, 1906..\$1996.21
Cash received 29.10
\$2025.31

WORKING FUND.

Cash on hand Jan. 20, 1906... \$317.08
Cash received Jan. 20
to March 21.....\$477.00
Cash received from
Albert M. Herr, Sec'y. 601.42 1078.42
\$1395.50

EXPENDITURES.

Paid 42 orders on
treasury1005.39
Balance cash on hand.. 390.11 \$1395.50

The following paper by John Birnie was then read by Herman Simmers:

Are There Too Many Carnations Introduced?

By John Birnie.

Are there too many new carnations introduced? This is the question put



JOHN BIRNIE.

to me by the American Carnation Society. I think it will be quite safe to give a negative answer to the question.

PERFECTION NOT YET REACHED.

Beautiful as the American carnation is at the present time the summit of perfection has not yet been reached and generations yet to come will find the goal still in front of them. There was a time—some fifteen or more years ago—that carnation growers throughout the country looked a little askance at the "new carnation," and not without good reason. We had at that time an avalanche of new carnations many of which were found to be worthless, causing considerable loss and disappointment to those who bought them, and with those new carnations several new diseases were introduced which created quite a commotion in carnation growing circles. Strenuous efforts were made to cure or overcome those diseases by the use of quack nostrums, but in many cases the cure was found to be worse than the dis-

ease. It might be said here, however, that those diseases never put experienced growers to any great inconvenience; and introducers gradually becoming aware of the fact that carnations grown under proper treatment and natural conditions were immune, those diseases finally disappeared, and today are never seen on any properly handled establishment.

BENEFIT OF A. C. S. TO GROWERS.

Introducing a new carnation at the present time is, however, an altogether different matter to what it was fifteen years ago or before the advent of the American Carnation Society. This society has surrounded the legitimate introducer with such restrictions as will make it absolutely impossible for him to introduce a new carnation which has not got at least good qualities enough to make it desirable in some branch of our business. Under the resolution passed at Boston, the much coveted certificate of merit will be harder to get than ever, seeing the carnation has got to score the required 85 points or more on the exhibition table, and also be examined at the introducer's establishment. This I think, is a step in the right direction, and for the first time makes the certificate mean something to the intending buyer. Hitherto the certificate of merit has only been a sort of special prize for specially selected flowers cut from plants which have been specially treated so as to produce blooms large enough to attract special attention on the exhibition table. This proves nothing, except that the varieties exhibited can, by intensive cultivation, be induced to produce large flowers. As to how many flowers can be produced per plant we are left to guess; neither have we any idea how those varieties will act under ordinary treatment. This new departure will, if it is ever put in force, be of great help to the intending purchaser of new carnations; in fact, it appears to be altogether for his benefit and protection. Such being the case all expenses incurred by the examining committees however appointed, should be paid by the society, even if this necessitate an increase in the annual dues to do so. The introducers, or promoters, could hardly be expected to pay directly for what is so obviously advantageous to the buyer, and might not always be of equal advantage to themselves.

SUGGESTED WIDENING OF SCOPE.

I am also of opinion that the field ought to be widened by reducing the scale a little, as I believe many carnations that would not score 85 points on the exhibition table, would, when examined growing on the bench, be found to possess other good points, such as health, productiveness, habit, etc., which would make them desirable for commercial purposes, and probably prove more profitable than the larger varieties. Many of our best paying commercial carnations today would have no show on the exhibition table. The society might with propriety go a step farther and keep a watchful eye on every new carnation from the time it is registered until it makes its debut after receiving its final certificate, and also inquire into the merits and demerits of all new carnations whether they are introduced through the medium of the American Carnation So-

ciety or otherwise. Those committees might also, with propriety take a walk through the introducer's propagating house, just to have a look at those "selected" cuttings, and see if conditions are all right. It is said that cuttings which go in there in good condition often come out with weakened constitution and other ailments which make them of little value to those who buy them. Only by adopting some such methods will the American Carnation Society give the purchaser of new varieties the protection he is entitled to, and at the same time make it impossible to introduce "too many new carnations."

SHOULD STRIVE FOR FRAGRANCE.

Our present day carnation introducers seem to be directing their efforts more to increasing the size of the flower than anything else, and their success in that direction is wonderful, but while they are struggling for size, it looks as if they were losing sight of one of the chief attributes of the carnation, namely, fragrance. The only two varieties in commerce at the present time which retain the much-admired clove scent are Flora Hill and Boston Market. A carnation with the color and size of Enchantress and the fragrance of Boston Market would be an acquisition worthy of the efforts of our introducers. Or is strong fragrance a characteristic of the white carnation as it is of the white verbenas? However that may be, an effort in that direction would not be amiss. Taste demands fragrance, just as fashion demands color.

COMPETITION OF ENGLISH GROWERS.

Size, however, is likely to be the main aim of the American introducer for some time to come, and the successful efforts of their British brethren in the profession to improve the carnation will furnish the incentive. We read of Malmaison carnations 8 inches across, and also of some crosses between English and American varieties which the Englishmen claim are improvements on the latter. Under those circumstances, the American introducer is not likely to rest on his laurels; evidently there are foemen worthy of his steel on the other side of the water.

VARIETIES FOR POT CULTURE NEEDED.

Hitherto our introducers have devoted their entire attention to the development of the carnation as a cut flower, but there is another phase of carnation advancement which they have altogether neglected, although they have had numerous hints regarding it both in the trade press and from the platform. I refer to the carnation for pot culture. We need a race of dwarf carnations of every shade of color. Colors that could not be used in the cut carnation would be very desirable in this class, and fragrance should be one of its prominent features. A race of carnations of the kind mentioned would mark an epoch in the plant trade. They could be grown in ordinary pots for the general plant trade, or put in pans or vases for decorative or holiday purposes. They could be flowered at any time without undue forcing, and would certainly make a far more satisfactory house plant than the short-lived although pretty azalea. They could also be used for summer

planting and would fill a long felt want in that direction, as I think it is extremely improbable that a carnation which would prove to be entirely hardy in our northern latitudes will ever be produced. There won't be "too many carnations introduced" until this much-needed class receives the attention it deserves.

INTRODUCERS SHOULD BE ENCOURAGED.

Any effort to discourage carnation introducers in their endeavor to improve the carnation would be a mistake. Those whom we might call our professional hybridizers have got hybridizing down almost to a science, and with the magnificent varieties now at their command as subjects to work on, decided improvements may be looked for in the near future, both on this and the other side of the Atlantic. The 4-inch flower may materialize at any time, but that will not satisfy the ambition of our carnation introducers. To them one step in advancement only suggests another, and when the 4-inch carnation is an accomplished fact, they will with characteristic perseverance reach out for one still larger.

In the discussion which followed W. N. Rudd remarked that the paper contained some good things and some rank heresies. Some people expect brains, horse sense and business experience all for two dollars per year. He had no patience with a man who expects the seal of commercial value on carnation certificates.

Invitations for the meeting for next year were presented from Indianapolis and Washington. The nominations for officers was the next business and resulted as follows: Wm. F. Gude, J. R. Freeman and Fred H. Lemon for president; Peter Bisset and Adolph Baur for vice-president; A. M. Herr for secretary, and F. E. Dorner for treasurer.

William Gammage then read a paper on "Carnations from a Canadian Point of View." He said that it was his observation that Canadians have a speculative faith in the future, as all are building greenhouses in modern ways and largely for carnation flowers. Cultural methods have to keep pace with the developments of today, and the carnation's popularity is on the increase.

The report of the judges was then read. A discussion of the status of Nelson Fisher as to eligibility in the Lawson class followed, and Messrs. Rudd, Ward and Lemon were appointed a committee to establish a rule on this question for the guidance of exhibitors and judges.

At Thursday morning's session the reports of committees were in order. The committee on change in methods of awarding certificates reported that they were unable to agree on a practical plan. Discussion brought out the consensus of opinion that it is impractical to send special committees to inspect varieties growing, and that nothing of value could be thus gained. It was voted to abrogate the rule to this effect adopted last year.

H. M. Altick made a final report on the McKinley fund, and a vote of thanks was passed appreciative of his efforts. The sum of \$100 was appropriated for this fund in the name of the society.

The color classification committee

recommended a new classification which was adopted for use in the schedules. The report of the nomenclature committee followed:

Report of the Nomenclature Committee.

Mr. President and Fellow Members:

Your committee reports the registration of the following carnations during the past year:

Splendor by Stevenson Bros.

Harvard, Georgia and Faust by James D. Cockroft.

Pocahontas by Baur & Smith.

Red Chief, Winona and Bonnie Maid by F. Dorner & Sons Co.

Lucile by J. D. Thompson Carnation Co.

Toreador by The H. Weber & Sons Co.

Red Riding Hood by Chicago Carnation Co.

Mrs. Robert Hartshorne by Malachi Tierney.

Welcome by Dailedouze Bros.

The registration of "Welcome" is provisional and subject to the approval or disapproval of this Society, it being a pink sport of Mrs. T. W. Lawson, and will be on exhibition at the meeting.

Registration is getting to be quite a bit of work. One of the above registrations was effected after an interchange of eight letters, several of the others required three and four, owing to the fact that the list of names that have been used is clumsily large, and also, to the fact that some introducers of new varieties do not take the trouble or do not care to go to the expense of registration.

From the amount of space given by our trade papers to this matter of registration, there is no excuse for any originator not to know that when he names a carnation, the proper thing to do is to have that name registered with the Society at once, the cost being but \$1.00 per name, and it is not obligatory to be a member of the Society to have a variety registered.

We, therefore, again recommend that no variety under name be allowed to compete in the exhibitions of this Society unless said name has been properly registered, either with this Society, or the S. A. F., and that this rule be in force for our next exhibition, with the privilege of registration the first morning of the exhibition for those who may have previously neglected it or who do not know of this rule.

We would also recommend that all names registered previous to 1896 be eliminated from the working list of this committee.

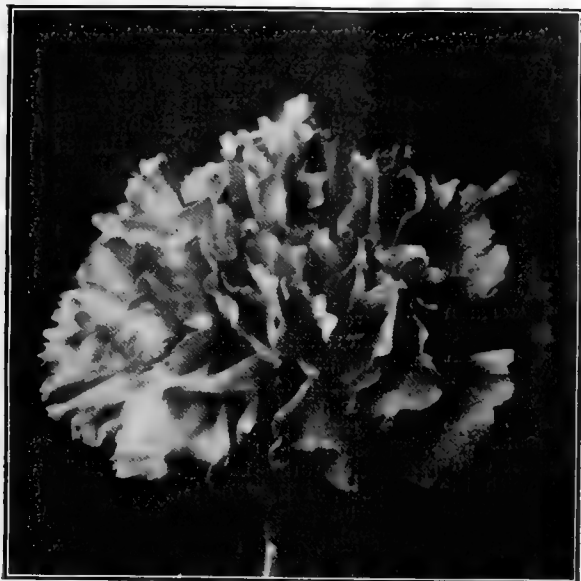
Respectfully submitted, Albert M. Herr, A. Herrington, Eugene Dailedouze.

After some discussion it was voted that the registration of the name of a variety should be a prerequisite to the award of certificates of entry in competitive classes. The recommendation to eliminate all names used previous to 1896 was not agreed to. Welcome was accepted as a name for the Lawson sport of Dailedouze Bros. The report as amended was adopted.

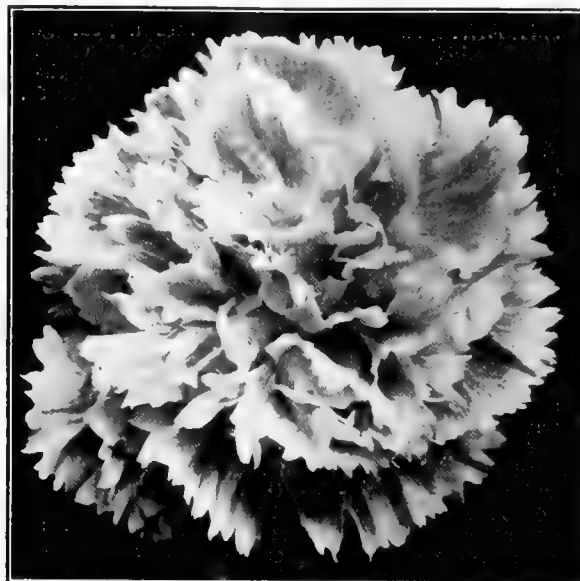
Telegrams of congratulations were received from Peter Fisher of Ellis, Mass., and Peter Bisset of Washington. An invitation to visit the Dale estate on Friday forenoon was accepted.

It being announced that William

Two Weber Seedlings.



NO. 24, '02.



TOREADOR.

Carnation No. 24, '02, was described in *HORTICULTURE* last year as follows:

Parentage, a deep pink seedling and Lawson. Height and habit very similar to Lawson. Flower is considerably larger, better formed and of better and more even color. All shoots come from the base of plant, the stems be-

ing practically bare of any side growth. Size 3 to 3 1-2 inches.

The variety described last year under No. 9, '03, has been named Toreador by Messrs. Weber and, as the following description shows, is a descendant of No. 24, '02. The description is as follows:

"In color, a very much improved

Prosperity. Parentage, Prosperity x No. 24, '02. Ground color is white, heavily overlaid with scarlet, barring a broad distinct zone of pure white on the edges of the petals. The latter are deeply serrated. It has the stiff stems of the pollen parent, and as long as Prosperity. In size it is equal to Prosperity at its best."

Scott of Buffalo had suffered a stroke of paralysis, a telegram of sympathy was ordered to be sent.

R. O. King's paper on "Greenhouse Construction" followed with black-board illustration.

THE EXHIBITION.

The exhibition was large and the blooms were of a superb quality and high average. The Boston exhibitors were very unfortunate on account of delay in the express delivery, being twenty-four hours late, but everything was in good order when unpacked and staged on the second day. The exhibition hall was cool and all the flowers kept in excellent condition.

The silver medal for vase of 100 blooms, any variety, any color, was won by Cottage Gardens Co., with Alma Ward; the bronze medal in the same class by Dailedouze Bros., Brooklyn, N. Y., with seedling 348. The S. A. F. silver medal was won by Cottage Gardens Co., with Alma Ward and the bronze medal by Bassett & Washburn with seedling No. 20.

The silver cup donated by the Canadian Horticultural Association for six vases, 50 blooms in each, distinct varieties, went to F. R. Pierson Co. The silver cup offered by the Steele, Briggs Seed Co., for six vases of 25 blooms each, distinct varieties, and the silver cup offered by the R. W. King Co. for the best 100 blooms in four varieties, four vases, went to W. J. Lawrence, Eglinton, Ont.

Silver cup offered by the H. Dale Estate for 100 blooms to be disseminated during 1907, to C. W. Ward for Beacon.

Ten dollars in gold by J. H. Dunlop,

Toronto, for best 50 blooms white, to R. Witterstaetter for seedling 1009.

Ten dollars in gold for, best 25 blooms, pink seedling or sport darker than Enchantress and lighter than Lawson, never before winning a prize or medal, to Dailedouze Bros., for seedling No. 348.

Ten dollars in gold offered by W. J. Lawrence for best 50 blooms not more than three varieties, for growers with less than 20,000 feet of glass, to E. Crowhurst.

Five dollars by J. H. Dunlop for best 12 blooms, private gardeners only, to M. Tierney.

Five dollars by George Vair for best 25 bright red blooms, to A. J. Guttman for Victory.

A certificate of merit was awarded to E. Reimels for seedling No. 32.

The first prizes in the various classes were as follows:

Vase 100 blooms, white, Chicago Carnation Co., Joliet, Ill., with White Perfection; 100 blooms Enchantress shade of pink, Chicago Carnation Co., with Enchantress; 100 blooms Lawson shade of pink, Chicago Carnation Co., with Aristocrat; 100 blooms Scott shade of pink, F. R. Pierson Co., Tarrytown-on-Hudson, N. Y., with Winsor; 100 blooms scarlet, Cottage Gardens Co., Queens, N. Y., with Robert Craig; 100 blooms crimson, Cottage Gardens Co., with Creole Beauty; 100 blooms any other color, J. E. Haines, Bethlehem, Pa., with Imperial.

Class B, open to all varieties disseminated prior to July 1, 1906:

Vase 50 blooms white, Chicago Carnation Co., with White Perfection; 50 blooms Enchantress shade of pink, same with Enchantress; 50 blooms

scarlet, Guttman & Weber, with Victory.

Class C, open to all varieties disseminated prior to July 1, 1905:

Vase 25 blooms white, Chicago Carnation Co., with White Perfection; 25 blooms Lawson shade of pink, Dale Estate, Brampton, Ont., with Lawson; 25 blooms crimson, E. Crowhurst, with Harlowarden; 25 blooms any other color, Dale Estate, with Nelson Fisher.

On Thursday morning the judges reported additional certificates to R. Witterstaetter for Afterglow, 87 points; A. Roper for Bay State, 85 points; H. Weber & Sons Co. for Toreador, 87 points, and the \$25.00 silver cup donated by the Montreal Gardeners' and Florists' Club to the exhibitor making the largest display, to F. R. Pierson Co.

NEWS NOTES.

The Miami Floral Co. of Dayton, O., has increased its capital stock from \$30,000 to \$50,000.

The Minneapolis (Minn.) Park Board held its annual meeting January 19th, electing the following officers: President, J. E. Northrup; vice-president, E. W. Decker; secretary, J. A. Ridgway; attorney, C. J. Rockwood; superintendent, Theo. Wirth.

W. W. Rawson of Boston observed his sixtieth birthday on January 23, by a banquet at the Hotel Vendome. Included in the large company were Governor Guild, Lt.-Gov. Draper, members of the governor's council, and many members of the various political and fraternal organizations with which Mr. Rawson has been affiliated.

NEWS OF THE CLUBS AND SOCIETIES

THE 38TH ANNUAL MEETING OF THE NEBRASKA STATE HORTICULTURAL SOCIETY.

This meeting held in Lincoln, Jan. 15, 16, and 17, marks something of a new departure. There has been hitherto a rehash of horticultural matters; for instance apples, peaches and cherries, varied with cherries, peaches and apples. It was suggested that this time we should have our annual report a sort of text-book, so after the address of welcome by Dr. C. E. Bessy, Tuesday afternoon, the first thing on the program was the planting of fruit trees, by A. J. Brown of Geneva, one of the most practical men in the state whose experience has run through a long series of years in the trying climate of Nebraska. The usual discussion followed. The planting of small fruits was assigned to G. S. Christy of Johnston. Mr. Christy is an expert along these lines, having been engaged for a long time, successfully too, in growing small fruits. His paper will be an authority on this subject.

Planting evergreens was assigned to Chas. A. Scott of Halsey. Mr. Scott is the superintendent of the government planting on the Dismal River, where it is proposed to plant about a half a million of acres. Mr. Scott is both practical and enthusiastic along this line and no man who has ever taken up work in our great state has had a more splendid opportunity, and he and Mr. Mace, his helper, are equal to the emergency. They have already done wonders and not only this, they are encouraging others also, and through their influence large tracts of hitherto worthless lands will be among the most beautiful and attractive in the state.

How to plant ornamentals—trees and shrubs, peonies and perennials, was discussed and a lot of valuable advice was given. The meeting was one of the best and was carried on smoothly from start to finish. H. S. Harrison, youngest son of C. S. Harrison, was chosen president for the ensuing year.

Park and Forestry Society.

The annual forestry meeting was held in the Agricultural Building at the State farm. It was well attended. Several matters of prime importance were discussed.

One-third of Nebraska is a waste of sand and yet a sand bank is an invitation to a conifer. The U. S. government are planting on a large scale. A bill was framed to go to the legislature to have the Governor appoint a commission to secure from the U. S. tracts of land for the State to plant to evergreens. The State has also several hundred of acres of what are termed saline lands, without salt enough to injure them, and an effort was made to have the State transform these lands with a park; and as they are near Lincoln, the capital, such grounds would add much to the attractions of the city.

The raising of catalpa for posts was also discussed. Actual tests showed that in 18 years land planted to this tree brought in an annual rental of \$10 per acre. Over a million of dol-

lars a year go out of the State for fence posts. All this should be retained and thousands of acres should be planted to this valuable tree.

C. S. HARRISON,
Pres. Park and Forest Society.

NORTH SHORE HORTICULTURAL SOCIETY.

This society held its regular meeting in Manchester, Mass., on Friday, Jan. 18th, President McGregor in the chair.

On motion of Mr. Jackson, Herman Thiemann of Belchertown was elected an honorary member. President McGregor appointed as a committee on essays and discussions, Messrs. Till, Mitchell and Allen. Messrs. Baker, Till, Morrison, Wetterlow, Parsons and Allen were appointed as banquet committee for the current year, with instruction from the chair to arrange for the annual dinner at an early date. Messrs. Jackson, Sanborn and Baker were appointed to convey by letter to Mr. R. C. Hooper and Miss Hooper the sympathy and condolence of the society in their recent bereavement. Mrs. Hooper will be greatly missed in and around Manchester, where the Hooper summer residence is located.

Herbert Shaw read a very instructive paper on "Annuals," the trend of his remarks being not so much towards new varieties, but the better care and cultivation of the older and more reliable sorts. An interesting debate followed. The question of imported annual seeds was touched upon, and from general remarks the writer would judge that the imported article is no improvement over that furnished by reliable domestic seed houses. It was voted to continue the subject at the next meeting. There were a large number of members present, and from present indications the year 1907 is to be the banner year of this society.

WILLIAM TILL.

ST. LOUIS HORTICULTURAL SOCIETY.

This society has been organized with the following officers:

President, Henry Young; vice-president, Alex. Waldbart; secretary, Otto G. Koenig; treasurer, Fred C. Weber.

The objects of the society are to encourage and promote the practice of horticulture, to labor in harmony with kindred organizations whose aim is to stimulate public sentiment in favor of amateur gardening, and a love and pride in beautiful environments. To hold stated horticultural exhibitions, to establish a bureau of horticultural information, issue pamphlets to exploit the art, give lectures and in every manner assist the public in their horticultural wants.

At a meeting held on January 14, it was voted to hold a flower show at some date during Lent, this year.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

At the next meeting of the club on February 19, Charles W. Ross, of Newton, will read a paper on Road Construction. Other interesting features are being arranged for.

W. N. CRAIG, Secretary.

CARNATION NIGHT IN PHILADELPHIA.

The next meeting of the Florists' Club of Philadelphia will be "Carnation Night," date of which is Tuesday, February 5th. John E. Haines, the carnation expert of Bethlehem, Pa., will deliver a paper on his experiences with carnations.

Exhibits of all meritorious novelties are invited by the committee in charge and it is to be hoped all the very best will be on hand so that the progressive florists of Philadelphia—the horticultural center of the country—may have an opportunity of examining them carefully, and as a consequence placing their generous orders for those which meet their fancy. Please ship prepaid care David Rust, Horticultural Hall, Broad St. above Spruce, Philadelphia, Pa., and they will be properly taken care of upon arrival.

N. B. It would be better to forward them a day sooner than is sometimes thought necessary so that they may be sure to arrive on time, as on former occasions some shipments from a distance have been delivered a day late.

All interested in carnations are invited to be present whether they have superior varieties to exhibit or not.

EDWIN LONSDALE, Secretary.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN.

The organization held its fourth annual banquet January 22, at the Eureka Club, Rochester, N. Y. About one hundred gentlemen were present. John D. Lynn officiated as toastmaster. C. J. Maloy of Ellwanger & Barry spoke on the "Square Deal," W. J. Gillette on the "Political Deal," Chas. E. Ogden on the "Nurserymen's Deal," and there was a deal of other speaking by eminent speakers. Among the guests were Orlando Harrison, of Berlin, Md., president of the American Association of Nurserymen; E. Albertson, Bridgeport, Conn., chairman of the Executive Committees and official representative of the American Association of Nurserymen; Professor John Craig, of Cornell University, Ithaca; George S. Josselyn, Fredonia; D. H. Henry, C. G. Chase and Theodore J. Smith, Geneva; O. D. Green, Syracuse; George C. Perkins, John Watson, C. H. Stuart, William W. Gould, Arthur M. Christy, Newark, N. Y., and W. T. Wood, Richmond, Va.

The committee in charge of the dinner was made up of B. F. Allen, chairman; W. W. Wyman, E. S. Osborne and Charles L. Yates. The president of the National Association is William Pitkin, of this city.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The president of the Chrysanthemum Society of America on assuming office would be glad to consider any suggestions which may appear to be for the good of the society. Lovers of the Autumn Queen are invited to communicate their ideas, and the hearty co-operation of every member of the society is most desirable for the ac-

BEACON CARNATION

(ORANGE - SCARLET)

Try Beacon, if only a few. You'll want all you can raise of it the next season.

Originated at Ellis, Mass.

**HAS AGAIN
DEMONSTRATED ITS COM-
MERCIAL VALUE
THIS SEASON 1906-7**

One of the
most productive
Carnations
ever offered.

It has been grown and tested by the following:—

The Cottage Gardens Company, Queens, N. Y.	-	5,000 plants
Mr. E. A. Stroud, Stafford, Pa.	-	1,000 "
The Park Floral Company, Denver, Col.,	-	50 "

They were all delighted with it.

At Ellis, Mass., we have - - - - - **20,000 plants**

Prices

Per 100, \$12.00,	50 at 100 rate	Per 2500, \$95.00	per 1000
" 1000 100.00,	250 " 1000 "	" 5000,	90.00 " "
Per 10,000, \$80.00 per 1000.			

WE ARE PREPARED TO MAKE PROMPT DELIVERY

THE COTTAGE GARDENS CO.
Queens, N. Y.

PETER FISHER
Ellis, Mass.

Send for Descriptive Circular

Mention this Paper

complishment of the success which should be ours.

The year is before us with all its grand possibilities; let each one contribute their share of interest, and the good results will be gratifying to us all. Let there be no drones in the hive of the C. S. A. during the year 1907.

DAVID FRASER, Sec'y.

LENOX HORTICULTURAL SOCIETY.

The regular meeting of this society was held January 19th, President Heeremans in the chair. All arrangements are made for the annual dinner which is to take place February 2nd, at the Curtis Hotel, Lenox. This is going to be a red letter event. Mr. Thos. Proctor was awarded a first-class certificate for some excellent spikes of *Euphorbia Jacquinæflora*, which were remarkably well grown, being five feet in length and with large trusses of flowers.

CLUB AND SOCIETY NOTES.

The Western New York Horticultural Society held their annual meeting in Rochester on January 23 and 24.

At the annual meeting of the Horticultural Society of Niagara Falls, Ont., on January 9, Thomas Berriman was elected president and T. J. Robinson, secretary.

About fifty were present at the nineteenth annual banquet of the Montreal Gardeners' and Florists' Club at the Lakeview House, Lachine, on January 16, which was pronounced the best

affair of its kind ever given by the club.

At the annual meeting of the Rhode Island Horticultural Society on January 16, in Providence, M. M. Burdick was elected president and Charles W. Smith, secretary and treasurer. This will make Mr. Smith's twentieth year of service in this capacity.

The New Hampshire Horticultural Society held their annual meeting on January 17 at Concord. The officers were re-elected with the exception of the secretary; Prof. H. F. Hall takes the place of W. D. Baker who has filled the position acceptably for thirteen years.

The newly organized Southampton Horticultural Society (N. Y.) held its first meeting on January 14 and elected the following officers: President, H. W. Clark; vice-president, W. F. Halsey; recording secretary, B. C. Palmer; financial secretary, Wm. Gray; treasurer, Julius King.

BUSINESS CHANGES.

The partnership between Ludwig Mosbaek and L. I. Risser has been dissolved, but the business will be continued under the name of the Mosbaek Greenhouse Company of Onarga, Mr. Risser, who is president of the Iroquois Canning Co., retaining his interest therein.

Wm. Mundy of Salem, Ohio, has sold his property on McKinley avenue and bought land outside the city. He will remove the greenhouses and build in the spring.

PHILADELPHIA NOTES.

We had a pleasant call on Monday and Tuesday from Isaac H. Moss, M. McRichmond and several others from Baltimore on a tour of inspection of the growing establishments in this vicinity.

Another new grower enters the arena. The baby this time is yclept Victor Groshens. He has purchased 20 acres at Hillside adjoining the Towill and Fahrenwald ranges and will devote himself to growing roses. Mr. Groshens has been superintendent of the Graham place at Logan for many years. Two houses 29x500 will be the first nucleus. The Lord and Burnham Co. through their Philadelphia manager, D. T. Connor, have the contract.

The feature of the Pennsylvania Horticultural Society's meeting on the 15th was the primulas exhibited by William Fowler. They were awarded a first and a certificate of merit. William K. Harris, an expert primula grower in days past, declared they must be two-year plants. But Mr. Fowler said they were but one year from seed. They were certainly very fine.

The Leo Niessen Co. have already got their up-to-date ice machine installed in the basement of their new building. They expect to move in about February 1st. The whole of the first floor will be occupied by the receiving and shipping departments. The offices will be on the second floor. Arthur Niessen tells me that all the fittings will not only be up to date but "1910 style" which means ahead of date some!

100,000 WHITE PERFECTION

Rooted Cuttings. Now Ready. 100, \$6.00 1000, \$50.00.

Aristocrat Beautiful Cerise, Winner Everywhere, March 1st Delivery.
\$12.00 per 100; \$100.00 per 1000

Red Riding Hood Our Grand Scarlet
\$12.00 per 100
\$100.00 per 1000

Daybreak Lawson or Melody

Superior to Enchantress in Many Respects.
\$6.00 per 100; \$50.00 per 1000.
READY NOW.

Chicago Carnation Co.

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JOLIET, ILL.

CARNATION SPECIALISTS. Only the best varieties grown. Rooted cuttings ready now.
Our price is governed by quality.

New Cannas

William Saunders 50c. each
\$5.00
New York per doz.
Ottawa \$35.00
per 100
Send for our list and descriptive catalogue.
We have a large stock of the best varieties.

Roses

on their own roots our specialty

Shrubbery IN VARIETY

Be sure and get our catalogue.

The CONARD & JONES CO., WEST GROVE, Pa.

John Waterer & Sons, Ld.

AMERICAN NURSERY

BAGSHOT, ENGLAND

have the finest stock of recognized **Hardy Rhododendrons, Azaleas, Andromedas**, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

John Waterer & Sons are the great exhibitors of Rhododendrons in London.

LADY GAY

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HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Peonies. Hollyhocks and Phlox.

Catalogue mailed on request.

M. H. WALSH

ROSE SPECIALIST WOODS HOLE, MASS.

PEONIES

\$6.00 to \$10.00 per 100

EDWARD SWAYNE
WEST CHESTER PA.

FORGING SPIREA

ASTILBOIDES FLORIBUNDA, \$4.00 per 100
COMPACTA MULTIFLORA, \$4.00 per 100

Wm. Elliott & Sons
201 Fulton St., NEW YORK

GOVERNOR HERRICK THE NEW VIOLET

Originated and introduced by

H. R. CARLTON, Willoughby, O.

We have the following stock in the finest condition to plant and now is the time to plant:

3 1/2 inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000
4 " 2.50 " " 12 " 100 " 75 " 1000

It will pay you. Try it. Order at once.

GERANIUM

Wholesale catalogue and price list contains descriptions of seventy-five of the best standard sorts and 100 imported novelties, sent free to trade only.

R. VINCENT, Jr. & SON
WHITE MARSH, MD.

CHARLES H. TOTTY

Wholesale Florist

MADISON, N. J.

CHRYSANTHEMUM NOVELTIES A SPECIALTY
List Now Ready. Send for it.

CHRYSANTHEMUMS

C. Fouset and Nonin, the money makers as we have found them \$1.00 per doz.; \$7.00 per 100; \$60.00 per 1000 Pacific, Estell, Willowbrook, Halliday, Kalb and L. Harriet, 60c per doz.; \$4.00 per 100; Cash with order.

EGGELING FLORAL COMPANY
653 S. Grand Ave., St. Louis, Mo.

SPECIMEN NURSERY STOCK

Deciduous Trees and Shrubs, Evergreens, Rhododendrons, Azaleas, over one hundred (100) acres of the choicest varieties.

SEND FOR PRICE LIST

COTTAGE GARDENS CO.
Queens, Long Island, - New York

ROOTED CUTTINGS OF

Kaiserin, President Carnot and La Detroit

Strong, healthy, well-rooted cuttings, ready Dec. 1st; price \$2.50 per hundred or \$20.00 per thousand.

Try our strong, healthy, western grown wood from the best corn soil in Illinois.

BASSETT & WASHBURN
HINSDALE, ILLS.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

GRAFTED ROSES

ON DICKSON'S IRISH MANETTI

We are now booking orders for March delivery.

KAISERIN, BRIDE, BRIDE MAID, KILLARNEY & RICHMOND; \$120 per thousand
Order Now.

ROBERT SCOTT & SON
SHARON HILL, DEL. CO., PA.

Beautiful New Pink Rose

AUROKA

See announcement and full description in "Horticulture," December 8 issue.

PAUL NIEHOFF, - Lehighton, Penna.

WHITE MAID

The Snow White
Sport from Fair Maid

Will be disseminated by the same man who sent out the Queen

Here is a carnation which everybody can grow and make money on—an everyday useful variety of the "Bread and Butter" sort. Booking orders now for delivery in Spring of 1908.

Per 100, \$10.00 - - Per 1000, \$75.00

R. E. MOIR, Brockton, Mass.

JOHN BARR, South Natick, Mass.

CARNATIONS

Rooted Cuttings, A No. 1 Stock, that will give the best of satisfaction

	Per 100	Per 1000
Helen Goddard	\$6.00	\$50.00
Robert Craig	5.00	45.00
Victory	5.00	45.00
Lieut. Peary	3.50	30.00
Lady Bountiful	3.00	25.00
Enchantress	2.50	20.00
Lawson	2.00	15.00
White Lawson	2.50	20.00
Harry Fenn	2.50	20.00
Queen	2.00	15.00
Cardinal	3.00	25.00
Flamingo	3.00	25.00
Eclipse	3.00	25.00
Jno. E. Haines	5.00	45.00

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILA.

1608-1618 Ludlow St.

You'll find something worth reading on every page of this paper.

CARNATIONS.

Red Chief—Bright scarlet—early and very productive. \$12.00 per 100; \$100.00 per 1000. Average 3 in. flower. A leader in every respect.

Bonnie Maid—Clear pink edged white.—\$12.00 per 100; 100.00 per 1000. Large well formed bloom. Very early and productive.

F. DORNER & SONS CO.
La Fayette, Ind.

**DON'T Be Afraid To Invest In
ROSE PINK ENCHANTRESS**

It is both free and "fancy"—a sure money-maker.
Price \$7.00 per 100; \$60 per 1000
Delivery January and later. Write for Descriptive Circular.

S. S. SKIDELSKY
824 No. 24th Street, Philadelphia

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THE BEST rooted cuttings of the following varieties, viz:—
Pink Lawson, Red Lawson, Var. Lawson, White Lawson, Enchantress, Harry Fenn, Genevieve Lord, L. Naumann. Plants ready January 15th. Plants clean; healthy and free from rust. Prices right. Address

A. W. WILLIAMS - Highland, N. Y.

CARNATIONS

Rooted Cuttings for immediate shipment.

Enchantress,	\$2.50 per 100, \$20 per 1000
Bountiful,	" " " "
White Lawson,	" " " "
Var. Lawson,	" " " "
Patten,	" " " "
Pink Lawson,	\$2.00 per 100, \$15 per 1000
Boston Market,	" " " "
Queen,	" " " "
Fair Maid,	" " " "
H. Fenn	" " " "

5 per cent discount for cash with order.

R. ENGELMAN & SON, Pittsfield, Mass.

MABELLE

New Pink Carnation for 1907

Color—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most Pinks, the brightest sun does not injure the color. **Size**—3 to 4 inches in diameter when established. **Odor**—Pleasing, but not strong. **Stems**—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. **Habit, etc.**—A very quick, active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. **Productiveness**—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. Delivery January 5th to 10th and later.

Price \$12.00 per 100, \$100.00 per 1000

THE H. WEBER & SONS CO., Oakland, Md.

JOHN E. HAINES,
The Leading Scarlet

brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass. All shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted, healthy cuttings leave the place. Rooted cuttings ready Dec. 15, 1906.

Price, \$8.00 per 100; \$50 per 1000.

JOHN E. HAINES, Bethlehem, Pa.

CARNATIONS

Rooted Cuttings—Now Ready

Per 100:—Light Pink Lawson, \$6.00; White Lawson, \$2.00; Variegated Lawson, \$2.50; T. W. Lawson, \$1.00; Enchantress, \$1.50; Harry Fenn, \$2.50; Manley, \$2.50; Boston Market, \$2.00; Fair Maid, \$2.00

HENRY A. STEVENS CO.

East Street, - - - Dedham, Mass

Have You Read the Advertisements this Week?

DEBUTANTE

The most profitable light pink Carnation.

Tested Four Years

\$10.00 per 100. Delivery begins Jan. 1.

J. W. HOWARD - Somerville, Mass.

SPECIALS — ROOM

We must have room and to have you help us take a 10 per cent discount for cash with order at once:

	2½ in.	3 in.	4 in.
Cinerarias,	\$5.00	\$8.00	\$12.50
C. Primroses in bloom,	5.00	8.00	12.50
Obconica,	5.00	8.00	12.50
Baby	5.00	8.00	12.50
Cyclamen		8.00	15.00

Stock guaranteed to please you or money back.

Send for our list of Carnations, R. C. and 2 in.

Roses, R. C. and 2 in.

FERNS—Boston, Whymann, Piersonii, Scottii, Elegantissima, Barrowsii, Adiantum, Plumosus and Sprengeri. Mention Horticulture when you write; also name Express Co.

GEO. A. KUHL, Pekin, Ills.

CARNATIONS — Rooted Cuttings

	Per 100	Per 1000
LAWSON	\$1.50	\$12.00
ENCHANTRESS	2.00	15.00
QUEEN	1.50	12.00
RED LAWSON	2.00	15.00
ROBERT CRAIG	6.00	

WARWICK GREENHOUSES

James Burke, Mgr. WARWICK NECK, R. I.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

EAST BRIDGEWATER DAHLIA GARDENS

not only has one of the largest, but one of the finest collections of any firm in America. We have over a million Dahlia roots to sell this coming season. Send for prices.

J. K. ALEXANDER, Prop., East Bridgewater, Mass.

DAHLIAS.

Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc.
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Brockton Dahlia Farm

Has the largest and finest collection of Dahlias in United States, with prices that will suit the trade. Send for price list.

W. P. LOTHROP, Prop., East Bridgewater, Mass.

A Positive Cure for Split Pinks

The M. & D. ARTIFICIAL CALYX Pat. Sep. 18, 1906.

Will obviate your trouble. A Perfect Flower guaranteed. \$1.75 per hundred, \$15.00 per thousand, \$50.00 per thousand rates. Send for Sample.

MAXFIELD & DIMOND, Mfr., P.O. Box 3040, Warren, R.I.

Seed Trade

Preparations for the Cannery convention are going on apace and it is quite safe to predict that the quality and extent of the displays both by individual firms and by the local committees will eclipse any previous convention held by the cannerymen. As might be expected of Buffalo, electricity is to be a prominent feature of all decorations and some beautiful effects will be produced.

In the matter of entertainment this convention will excel anything previously attempted. Special arrangements are being made to give the ladies a good time, a unique feature being a trip to East Aurora and a visit to Elbert Hubbard and the Roycrofters. It is planned to serve lunch to them there and no doubt the visit will be heartily enjoyed.

An "At Home" will be tendered to the packers and their friends by the Machinery and Supplies Association, which will be a very elaborate affair. The various officers' rooms at the Armory are to be fitted up to represent the different nations. For instance, there will be an American, a British and a German room, and probably others, and in each will be served refreshments both solid and liquid characteristic of that nation. This entertainment is scheduled for Wednesday evening. A theatre party is to be given on Thursday evening by the American Can Co., and there will be other minor attractions. A record attendance is looked for.

The Bell and Howe Telephone Companies have agreed to give free local and long distance service to those attending the convention between the hours of six p. m. and nine a. m., from Monday until Friday night.

Last winter at Atlantic City some twenty odd seed firms were represented, while not over ten are members of the association. It would seem more dignified on the part of those who wish to attend the convention to join the association instead of simply being camp followers. This is a reproach which seems to apply to seedsmen more than to any other business, and it is often commented on by their colleagues in other lines.

The great decline in the demand for seed peas from market gardeners and farmers it is pretty well understood by the seedsmen is mainly due to the large and increasing consumption of canned peas, and this applies especially to the leading restaurants and hotels. This is due to various causes, but chief among them is the labor or servant question. The farmer cannot get the peas picked after raising them, particularly in the vicinity of any large city, while the hotel or restaurant cannot get them shelled. The cannerymen are making an effort to cater to this trade by packing peas in gallon cans, thus saving to the proprietor of these establishments fully 10 per cent over the standard can.

In 1890 something less than 200,000 cases of peas were packed in the United States, and these mainly in Baltimore, while in 1906 the country's pack was in round figures 4,600,000 cases, of which New York State and Wisconsin supplied something over one-half. It can safely be said that with an average crop, 1907 will produce over 5,000,000 cases; yet the consumption has kept

BEGONIAS

Fine large plump bulbs just received from Belgium.

	SINGLE			DOUBLE		
	Doz.	100	1000	Doz.	100	1000
Orange	40	2.75	23.50	65	5.00	40.00
Scarlet	40	2.75	23.50	65	5.00	40.00
Pink	40	2.75	23.50	65	5.00	40.00
White	40	2.75	23.50	65	5.00	40.00
Yellow	40	2.75	23.50	65	5.00	40.00
Mixed	35	2.50	22.00	50	4.00	35.00

GLOXINIAS

These should be planted now to have fine large plants for Easter Sales.

	Doz.	100	1000
Red and Scarlet	60	4.00	35.00
Blue	60	4.00	35.00
Bordered Scarlet	60	4.00	35.00
Bordered Blue	60	4.00	35.00
Spotted	60	4.00	35.00
White	60	4.00	35.00
Choicest Mixed	50	4.00	35.00

DIELYTRA (Bleeding Heart) for forcing.

This makes a most saleable plant for church decoration and there is nothing that forces more quickly and with greater ease. Strong heavy clumps a mass of flowering eyes.

75c per doz., \$5.50 per 100, \$52.50 per 1000

TIMELY FLOWER SEEDS, that is, to sow now.

ALYSSUM, Little Gem, We have the real dwarf type for pot culture and bedding, trade pkt. 10c, oz. 30c
 LOBELIA, Crystal Palace Compacta, the best type for bedding, 30c, \$1.50
 PETUNIA, Grandiflora Fringed Single, in mixture containing the brightest colors, 1/2 trade pkt. 30c, 50c
 PETUNIA, Double Fringed and Hybridized mixture will yield a large per cent of double flowers, 500 seeds 75c, pkt. 1000 seeds \$1.50
 SALVIA, Bonfire, A dwarf compact variety seed selected from specimen plants, per trade pkt. 40c, per oz. \$2.50

NOTE—The above varieties of flower seeds are only a few specials from our very large list. Our new WHOLESALE CATALOGUE is now ready. It will pay every florist to have a copy. Write for it today.

HENRY F. MICHELL CO.

1018 Market Street,

PHILADELPHIA, PA.

pace with the output, and with the largest crop on record prices of both "spots" and "futures" are higher than ever before.

While peas, corn and tomatoes are the large items of the packers of vegetables, there are others such as string beans, beets, spinach, pumpkin and squash, the output and consumption of which are constantly increasing. These facts are of interest to the seed trade because the cannerymen look to them to supply the seed from which all of these goods are grown, but a word of warning may not be out of place here.

Don't imagine any kind of junk will do for the canner. He is getting to be a critical buyer of seeds and while he may be inveigled into buying junk once, the same dealer will not fool him twice.

It is a matter of regret that a few seedsmen will sell anything to the canner on which they can make a few dollars discrediting not only themselves but the entire seed trade. Should a suit be brought against any of these firms by the canner, it is doubtful if they could make a successful defence, and it will readily occur to the reader why such a suit might not be an un-mixed evil.

The House Committee on Agriculture decided Jan. 22 to recommend the discontinuance of free seed distribution by Congress. Instead of appropriating the customary \$250,000 for this purpose the committee will advise that this sum be used to purchase rare seeds to be distributed by the Department of Agriculture.

HIGH GRADE BEGONIAS and GLOXINIAS

FROM BELGIUM'S LEADING SPECIALISTS

TUBEROUS-ROOTED BEGONIA BULBS, Splendid Bulbs

	Per doz.	Per 100	Per 1000
Single, separate colors, Scarlet, Crimson, Rose, White and Orange	\$0.40	\$2.50	\$23.00
Single, choice mixed	.35	2.25	22.00
Double, separate colors same as above	.60	4.25	34.00
Double, choice mixed	.50	4.00	34.00

GIANT-FLOWERING GLOXINIAS, Exceptional Quality

	Per doz.	Per 100
Separate colors, Spotted Red, White, Blue, Red with White	\$0.50	\$3.50
Bordered and Blue with White Border	.45	3.25
Choice mixed	.45	3.25

See Our Flower Seed Offer in last week's HORTICULTURE. Send for our Florists' Catalogue

Johnson Seed Co., 217 Market St., Philadelphia, Pa.

Herbert W. Johnson, of the late Firm of Johnson & Stokes, President

"HORICUM" KILLS SAN JOSE SCALE
 Sold by the seed dealers
 For fine pamphlet, write to
 HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.

VICK'S ASTER SEED

THE STANDARD OF EXCELLENCE

VICK QUALITY ASTERS

INTRODUCED BY US
GROWN EVERYWHERE

Vick's Branching
(7 colors)

Vick's Snowdrift

Vick's Lavender Gem

Vick's Daybreak

Vick's Purity

Vick's Mikado

Vick's Violet King

How to Grow Asters

is a little handbook compiled by us for the practical uses of Aster Growers.

Price Ten Cents

Free with an order of Aster Seed.

SPECIAL OFFER

One paper of each of Five New Varieties and How to Grow Asters for

\$1.00

SEND FOR OUR NEW

Illustrated and Descriptive

Aster Book for Florists

It describes in detail, not only the varieties originating with us, but also all other leading sorts.

The largest and handsomest work of its kind ever issued.

Intended only for wide-awake florists who appreciate the fact that

**THE BEST QUALITY IS
ALWAYS THE CHEAPEST**

Mailed free upon request.

JAMES VICK'S SONS

Rochester, N. Y.

The Leading Specialists and Largest
Growers of High Grade Asters
in the World

FIVE NEW VARIETIES FOR 1907

Vick's Sunset

Companion to Daybreak and Purity; in color a delicate pink shading to a deep rich pink in center. Profuse bloomer. Price per packet, 25c.; 2 packets, 40c.

Vick's Upright

Long, graceful stems branch out at the ground and grow directly upward. Flowers are symmetrical, double and full to the center. Splendid for cutting. Especially valuable for shipping. Price per packet, 25c.; 2 packets, 40c.

Vick's Royal Purple

An offshoot from the Branching. Unlike its parent, it sends out stems close to the ground. A medium early variety but lasting until late in fall. Nearly every stem produces specimen flowers. Price per packet, 20c.; 2 packets, 35c.

Vick's Branching Rosy Carmine

A new color in the Branching class. Leading florists pronounce it a shade which will be popular with the trade. Price per packet, 25c.; 2 packets, 40c.

Vick's Cardinal

The best bedding Aster ever introduced. A good one for cutting. With its profusion of flowers and brilliant coloring it makes a handsome showing. Price per packet, 25c.; 2 packets, 40c.

NEW CROP ASPARAGUS PLUMOSUS NANUS

GREENHOUSE SAVED SEED

Now ready for Delivery

1000 Seeds \$ 7.00

5000 " 32.50

For other Seeds, write for our Wholesale
Price List and Retail Catalogue for 1907

R. & J. FARQUHAR & CO.

6 and 7 South Market St.

BOSTON, MASS.

The Five Superb SWEET PEA NOVELTIES

... OF THE SEASON ARE ...

"Nora Unwin"

The most magnificent White yet introduced, far outdistancing Dorothy Eckford.

"Frank Dolby"

An enormous flowered Lady Grisel Hamilton.

"E. J. Castle"

Rich Carmine Rose, Salmon Shading.

"A. J. Cook"

Fine violet-mauve silk, resembling Mrs. Walter Wright in color.

"Mrs. Alfred Watkins"

A superb Pink, somewhat like the old Princess Beatrice in color.

The Giant Flowered Offspring of "LADY UNWIN"

Each per packet, 25 cents.

To be obtained of all American Seedsmen.

WHOLESALE OF

WATKINS & SIMPSON, 12, Tavistock Street, Covent Garden, W. C., LONDON, ENGLAND

The largest wholesale growers of Flower Seed and Special Stocks of Vegetable Seed in the British Empire.

ARTHUR COWEE GLADIOLUS SPECIALIST

Meadowvale Farm

BERLIN, N. Y.

HAS UNDER CULTIVATION

OVER 100 ACRES

COMPRISING

The Best Mixtures, Collections and Named Varieties in Existence.

Write for 1906 Catalog

THOS. J. GREY & CO.

Fresh Flower, Farm and Garden Seeds, New Mushroom Spawn. Extra quality — French, Japan and Dutch Bulbs. A full line of Agricultural Machinery and Repairs

32 South Market St., Boston

SEND FOR CATALOGUE

RAWSON'S HIGH GRADE SEEDS

for the most critical

GARDENER, FARMER or FLORIST

Catalogues mailed free

W. W. RAWSON & CO.
5 Union St., BOSTON, MASS.



100,000

Phoenix Roebelini Seed

This elegant, graceful and easy growing palm is one of the most useful for all kinds of decorative work both in small and large plants. Price, \$7.00 per 1000.

YOKOHAMA NURSERY CO.
31 Barclay St., New York.

Thorburn's Seeds

... OUR ...

Wholesale Catalogue

for florists and market gardeners is now ready and will be sent free to all who ask for it.

NEW CROP flower seeds are mostly all on hand now and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

J. M. THORBURN & CO.
33 Barclay St., through to 38 Park Place
NEW YORK

Our Seed Catalogue

is ready for distribution. All the

Best and Truest Stocks

of all seeds and bulbs. WRITE FOR A COPY.

James Vick's Sons,
Rochester, N. Y.

C A U L I F L O W E R S E E D C A B B A G E

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

ASPARAGUS

Plumosus Nanus

Greenhouse Grown

FINE PLUMP SEED

\$5.00 per 1000

BRIDGEMAN'S SEED WAREHOUSE

RICKARDS BROS. Props.

37 East 19th St., NEW YORK CITY

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

For Prompt Shipment — Just Imported.

SPIRAEA AND LILY OF THE VALLEY

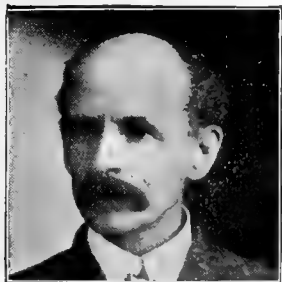
LILIUM Auratum, Album, Roseum, Rubrum.

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS

Comet Tomato

Those who force tomatoes should give "Comet" a trial. This variety has been the talk of gardeners around Boston the past season. Those who have seen it growing declare there's nothing to compare with it.

Seed, \$5.00 per oz. Trade packet \$1.00.
WILLIAM SIM, Cliftondale, Mass.



CALDWELL THE WOODSMAN,
Introducer of the Wild Smilax.

Wild Smilax, \$2.50 per case.

THE ONLY PLACE WHERE YOU CAN ALWAYS GET IT.

Long Needle Pines, \$1.00 per dozen. Palm Crowns, \$2.50 per dozen. Extra nice long-stemmed Palm Leaves, \$2.50 per 100. Magnolia, \$2.50 per case, 16 cubic feet. Sheet Moss, \$2.00 per sack. Grey Moss, \$2.00 per sack. Galax, \$1.00 per 1000.

Speed a Specialty.

Write for Catalogue.

Caldwell the Woodsman Decorating Co., Inc., EVERGREEN, ALA.

ROSES

VIOLETS

GARDENIAS

CARNATIONS
VALLEY

AND ALL OTHER CHOICE FLOWERS

In our **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition to our regular wholesale EVERGREENS and FLORISTS' SUPPLIES

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. **Boston, Mass.**
and 9 Chapman Place,

See our Greens Advertisement on page 113.

L. D. Telephone, Main 2618.

OBITUARY.

James Braik.

The death of James Braik, assistant superintendent of parks of Buffalo, N. Y., which occurred on January 16, takes away one of the most honored and capable men in the profession. The cause of death was the sudden recurrence of a severe attack of rheumatism from which he was convalescing. Capt. Braik has served most efficiently as assistant superintendent of parks since 1887, and during this time has endeared himself to a host of horticultural friends, who found in him a whole-souled, companionable gentleman. During the time of the Pan-American Exposition and the S. A. F. convention held there, visitors in the fraternity had many occasions for gratitude for courtesies freely extended by Capt. Braik. He has been a member of the S. A. F. since the Detroit convention in 1899. He is survived by his widow. Captain Braik was born in Scotland 58 years ago, and previous to his removal to this country he was a member of the 42d Highlanders (Black Watch), and was one of the sentries who watched the crown jewels at Edinburgh. He was a prominent member of the local branch of St. Andrew's Scottish Society, having occupied the position of president from November, 1892, till November, 1893. He retained his love for military life and was the first captain of the Gordon Highlanders of this city. He was a past master of a Masonic lodge before coming to this city, nineteen years ago. The funeral on Saturday, January 19, was under the direction of Lake Erie Commandery.

At a special meeting of the Buffalo Florists' Club the following resolutions were adopted:

"That we have heard with profound sorrow of the death of our esteemed associate, James Braik. His long and

faithful work in the parks of our city and his upright character have endeared him to his fellow workmen and to the citizens of Buffalo.

"In his death the city loses a faith-



THE LATE JAMES BRAIK.

ful, competent and enthusiastic servant, and his associates a staunch friend."

James Mallon.

James Mallon, for over half a century Brooklyn's best known florist, died at his home on January 19, after an illness of two weeks. Mr. Mallon came to this country from Tyrone, Ireland, when a boy of 15, and found employment in Brooklyn and has made his home there since. In 1855 he established himself in business on Fulton Street and later opened a branch store at 20 Smith St. Several years ago he turned over the active maintenance of the business to his sons, but never gave up his personal interest and assistance in it. He was 75 years of age,

a genial, whole-souled man. Two sons and two daughters survive him.

Daniel Daffley.

There has passed away at the age of 86, the oldest gardener in this vicinity, Mr. Daniel Daffley, gardener for Miss Amy Lowell, Warren St., Brookline. Mr. Daffley was born in County Roscommon, Ireland, came to this country when a young man and worked on several private places. Forty-one years ago he went to work on the Baker estate in Brookline, which two years later became the property of the late Augustus Lowell. Mr. Daffley was retained as head gardener, a position he held until his death. A man of retiring disposition, beloved by all who had the pleasure of knowing him.

James Sharkey.

James Sharkey, for the past three years greenhouse foreman for R. & J. Farquhar & Co., Roslindale, Mass., died on January 11, aged 55 years. Mr. Sharkey had previously been employed on the estates of Prof. C. S. Sargent and Mrs. A. W. Blake, and on the Boston Public Grounds under superintendent Wm. Doogue. He was an all-round gardener, and to his care and skilful pruning is due much of the health and symmetry of the trees in the Commonwealth avenue parkway. He was a native of Ireland.

ABOUT NAPHTHALIN.

In connection with the use of Naphthalin against plant enemies (p. 34 of our issue of Jan. 12th) a correspondent reminds us that the "moth balls" or "coal tar camphor" of our shops, consist of Naphthalin, so that our gardeners can easily obtain the material to try its efficacy. As the vapors, in the confined space of a greenhouse, may be dangerous or fatal to some plants, it will be well to use some caution in experimenting.

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for Samples.

E. A. BEAVEN, Evergreen, Ala.

NEWS NOTES.

Charles L. Stanley, Plainfield, N. J., has moved to 159 East Front street.

B. R. Clark of Baltimore, Md., has disposed of his greenhouses to C. B. Hoffman.

The will of the late George Ellwanger of Rochester, N. Y., is to be contested by relatives.

Articles of association have been filed by the Crabb & Hunter Floral Co., of Grand Rapids, Mich.; capital, \$20,000.

W. H. Graham of Manchester, Vt., is installing a new heating plant and making many improvements in his greenhouses.

Carl Beers of Bangor, Me., has taken over the Mt. Hope Avenue Greenhouses which he built and from which he retired three years ago.

The stock and fixtures in the store of "Penn the Florist," on Bromfield street, Boston, was considerably damaged by smoke and water on the night of January 21. A fire in the basement of the building was the cause.

The high wind of Saturday night broke one of the large plate glass windows in the store of John Breitmeyer's Sons, Detroit. Fortunately the window fell on the street, thereby avoiding damage to the fine display of azaleas and the beautiful Italian fountain.

Carl Wehn, of 2427 Jerome avenue, New York, a seed and supply dealer formerly employed at Thorburn's, was seriously injured on January 11 by an accident on the elevated railroad. Ten ribs were broken and other internal injuries received. He has a wife and two children. A companion who was with him at the time was instantly killed.

Schlegel & Fottler, Boston, have adopted a shipping tag of rather novel design. The card is red on both sides with white lettering, and on the back is a half-tone view in Franklin Park.

Send orders for flowers for delivery in

BOSTON and all NEW ENGLAND POINTS to
THOS. F. CALVIN
124 Tremont St., Boston

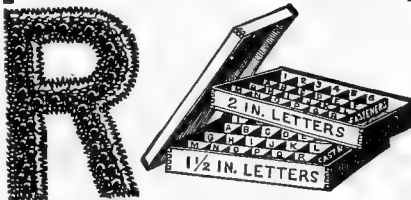
The Park Floral Co.

J. A. VALENTINE
Pres.

DENVER, COLORADO

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

JOHN BREITMEYER'S SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada

P. J. HAUSWIRTH

Temporarily Located
at

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CHICAGO

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SAMUEL MURRAY Florist

Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO
Both 'Phones 2670 Main

FRED C. WEBER FLORIST

4326-28 OLIVE STREET ST. LOUIS, MO.
Established 1873
Long Distance Phone Bell Lindell 676

WILLIAM L. ROCK Flower Co.

KANSAS CITY, - MO.

will carefully execute orders for Kansas City and any town in Missouri or Kansas.

Have You Read the Advertisements
this Week?

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

571 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
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42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"



WASHINGTON,
D. C.

GUDE'S

Geo. H. Cooke FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

William J. Smyth FLORIST

Cor. Michigan Ave. and 31st St., CHICAGO.

We ship to all points in Illinois and Iowa.

Phones: Douglas 744, Douglas 523, Douglas 740

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Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON
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Theodore Miller FLORIST

Long Distance Phones: Bell, Forest 56; Kinloch, Delmar 201
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Single Daffodils White Cattleyas Fancy Freesias

LEO NIESSEN CO. WHOLESALE FLORISTS

1217 Arch St., PHILA.

Store open from 7 A. M. to 8 P. M.

CUT BOXWOOD
In 50 and 100 lb. cases, 15c. per lb.

CATTLEYAS

\$50.00 per 100

WHITE VIOLETS

\$1.50 per 100

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

1608-1618 Ludlow St. Store closes 8 p.m.

AMERICAN BEAUTY

and all other Roses

**LILY OF THE VALLEY
CARNATIONS**

WELCH BROS.

226 Devonshire St., BOSTON, MASS.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS

PHILADELPHIA, PA.

EVERYTHING SEASONABLE IN

CUT FLOWERS

EDWARD REID, Wholesale Florist

1526 Ranstead Street, PHILADELPHIA

Store Closes 8 P. M.

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

PETER REINBERG
WHOLESALE

CUT FLOWERS

51 Wabash Av., Chicago, Ill.

In writing advertisers, mention Horticulture

**CATTLEYAS
and VALLEY**

W. E. McKEISSICK

Wholesale Florist

1221 Filbert St., PHILADELPHIA

**PITTSBURG
FLORISTS' EXCHANGE**

217-219-221-223 Diamond St.
PITTSBURG, PA.

Largest Wholesale House Between
New York and Chicago.

FANCY WHITE LILAC

Ready January 20th.

Beauties. Carnations. Violets

Superb Illustrated Supply Catalogue just
out. Send for one.

A. L. RANDALL CO., 19-21 Randolph St.
CHICAGO.

DAILY CONSIGNMENTS

From 40 to 60 Growers

We can care for your cutflower wants to
advantage.

E. F. WINTERSON CO.

45-47-49 WABASH AVE., CHICAGO

ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting
especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building

28 STATE ST., BOSTON

Telephone, Main 58

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		ST. LOUIS		PHILA.		BOSTON	
	January 12				January 23		January 24	
ROSES								
Am. Beauty, Fan. & Sp.	40.00	to 50.00	.....	to .....	.....	to 75.00	50.00	to 60.00
" Extra.....	25.00	to 35.00	.....	to	50.00	to 60.00	30.00	to 40.00
" No. 1.....	10.00	to 20.00	.....	to	25.00	to 40.00	12.00	to 20.00
" Lower grades.....	6.00	to 8.00	.....	to	6.00	to 12.00	8.00	to 12.00
Bride, 'Maid, Golden Gate, F. & S.	10.00	to 12.00	.....	to	15.00	to	12.00	to 15.00
" " " " " No. 1 & Ex.	8.00	to 10.00	.....	to	10.00	to 15.00	8.00	to 10.00
" " " " " low grades.....	3.00	to 6.00	.....	to	5.00	to 8.00	6.00	to 8.00
Liberty, Richmond, Fan. & Sp.	12.00	to 25.00	.....	to	25.00	to 40.00	20.00	to 35.00
" " " " " Lower grades.....	4.00	to 8.00	.....	to	8.00	to 15.00	6.00	to 12.00
Chatenay, Morgan, Fan. & Sp.	6.00	to 8.00	.....	to	15.00	to 18.00	12.00	to 15.00
" " " " " Lower grades.....	3.00	to 5.00	.....	to	6.00	to 8.00	6.00	to 8.00
Killarney, Wellesley, Fan. & Sp.	8.00	to 12.00	.....	to	15.00	to 20.00	12.00	to 15.00
" " " " " Lower grades.....	4.00	to 6.00	.....	to	6.00	to 10.00	6.00	to 8.00
CARNATIONS								
Fancy.....	3.00	to 6.00	.....	to	5.00	to 6.00	3.00	to 4.00
Ordinary.....	2.00	to 3.00	.....	to	2.00	to 3.00	2.00	to 3.00
MISCELLANEOUS								
Violets, Double.....	.75	to 1.00	.....	to	1.00	to .....	.35	to .75
" Single.....	.50	to .75	.....	to .....	.....	to 1.00	.50	to .75
Paper White Nar., Roman Hy.....	2.00	to 3.00	.....	to	3.00	to 4.00	2.00	to 2.50
Tulips, Daffodils.....	3.00	to 5.00	.....	to	4.00	to	3.00	to 5.00
Cattleyas.....	50.00	to 60.00	.....	to	40.00	to 50.00	35.00	to 50.00
Lilies, Callas.....	20.00	to 25.00	.....	to	15.00	to 18.00	10.00	to 12.00
Freesia.....	2.00	to 3.00	.....	to	2.00	to 6.00	2.00	to 3.00
Gardenias.....	.....	to 50.00	.....	to	25.00	to 40.00	.....	to 50.00
Lily of the Valley.....	2.00	to 5.00	.....	to	2.00	to 5.00	2.00	to 4.00
Mignonette.....	4.00	to 6.00	.....	to	2.00	to 6.00	1.00	to 3.00
Adiantum.....	1.00	to 1.50	.....	to	1.00	to 1.50	.50	to 1.00
Smilax.....	15.00	to 20.00	.....	to	15.00	to ..	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	.....	to	50.00	to .....	.....	to 50.00
" " & Sprenger bunches.....	20.00	to 50.00	.....	to	50.00	to	20.00	to 50.00

POEHLMANN BROS. CO.

Grow and Ship the Finest

AMERICAN BEAUTIES

in the World.

35-37 Randolph St., CHICAGO, ILL.

**The Florists' Supply House
of America**

Can fill hurry orders. Telephone or Telegraph

H. BAYERSDORFER & CO.

1129 Arch St., Philadelphia

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To the needs of the up-to-date Florist Store. The latest styles in every line of goods are in our stock.

Our Tone Ware Vases and Bowls in Pompeian Designs

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CUT FLOWER MARKET REPORTS

BOSTON The condition of the market in all lines of stock at the present time is summed up in the one word "scarcity," with the exception of violets and lily of the valley. The weather of the past week is accountable for the condition which prevails and dealers do not look for an improvement for a few weeks. The demand has taken everything in sight, many orders going unfilled.

Unfavorable weather was **BUFFALO** had the past week up to Saturday which was another ideal spring day. A fairly good week's business was had. Roses, especially Brides, were scarce; Beauties were not abundant and prices held firm. Other stock sold considerably better than the previous week. Carnations of good quality cleaned up nicely; tulips and other flowers sold well. Mignonette of finest quality is to be had, also freesia and lily of the valley. Violets are coming in normal supply and selling quickly. Greens are in fair supply.

Another week of the **COLUMBUS** worst weather possible, rain every day, and no sun. The whole trade are very hopeful, nevertheless, that some settled pleasant days will bring some good business. Business has not been by any means bad, but the weather conditions have held the orders back. Stock of all kinds is coming in, especially good quality carnations, the best of the season thus far. Roses are selling well, especially some fine Liberty; violets are lower. The seedsmen are beginning to receive the first advance orders, and are getting quite busy, with every indication of a fine business ahead. Things are prosperous here.

DETROIT While I am writing a severe cold wave is following a terribly slushy week. Stock is very scarce, especially roses. The delegation to the Toronto convention from this city will be large. Recent visitors in Detroit: B. Eschner, Philadelphia; A. Ringier, Chicago; J. E. Rolker, New York.

The weather conditions hampered **INDIANAPOLIS** trade, the entire week being warm, rainy and disagree-

able. Stock in some lines has been short but enough to supply demand at fairly good prices. Roses outside of Brides and Bridesmaids have been somewhat off crop in this vicinity and fancy Beauties are still bringing top prices. Carnations all colors are in heavy supply with a slight shrinkage in prices. Miscellaneous stock such as daffodils, tulips, freesia, lily of the valley, sweet peas, etc., is in fair supply and sells well. Some nice lilac is offered at a stiff price. There is an unusually good call for ferns, palms and flowering plants for this time of the year; growers have no trouble in disposing of good azaleas. Greens of all kinds are enough to meet all demands.

Business conditions **LOUISVILLE** have improved, there being a little better demand for stock. Carnations and roses of good quality can be had in adequate quantities, and sell well. Violets and lilies of the valley are plentiful, and the latter are rapidly disposed of. Hyacinths, narcissus, etc. are too abundant.

Receipts of roses are **NEW YORK** very light; in fact not in years has the same condition prevailed. Plants are not producing, and there is no immediate prospect of an increased supply. Carnations help to fill in the gap, and quotations are much higher in consequence. Even violets are not blooming freely though there are plenty of these to go around. Lily of the valley is selling better than last week, and so too are cattleyas which have been slow to move up to this week. Bulbous stock holds up well in price on account of the scarcity of roses. Nothing is going very cheap. Even green stock clears out very well. Business in general is rather quiet.

All kinds of flow- **PHILADELPHIA** ers are very scarce at present on account of the unusually dull cloudy weather which has prevailed almost without interruption since the new year. Cut and color have both suffered especially in roses. Beauties are of course scarce and high-priced. The quality however is very fair considering the adverse conditions. Brides and Bridesmaids are not near as good as

they should be. Killarneys are fine as to size but deficient in color. Richmond is now very much better than Liberty, and has suffered less from the objectionable bluish cast which is inevitable during cloudy weather with dark roses. Golden Gates are plentiful. Carnations are off crop considerably and prices have hardened a little. The new Fisher scarlet Beacon has made its appearance from the Stratford greenhouses of Edward A. Stroud and meets with a warm reception. The other leaders are Lawson, Enchantress, Robert Craig, Victory, Peary, and Queen. Violets are plentiful with demand slack. Lily of the valley is also a bit draggy although the quality is very fair. Orchids and white lilac are plentiful but prices hold steady. Tulips and daffodils are selling well. The crop of Paper Whites and Romans has now shortened up and the market for same is in better condition. There has not been much of a glut on these this year except one little spasm just after the new year.

Business here is at a **TWIN CITIES** standstill. Prices are high and flowers not the best. The winter thus far has been very unfavorable for the production of good stock; dark weather has long prevailed. Bulb stock and flowering plants are not selling fast, and the reaction after the holidays is really deplorable.

PERSONAL.

John L. Watkins, Sandy Hill, N. Y., is reported to be seriously ill.

Carl Jurgens and wife, of Newport, R. I., expect to sail for Italy on January 29.

William Kleinheinz, Ogontz, Pa., has just returned from a trip to Germany and Belgium.

C. Kern, formerly with J. H. Troy, New Rochelle, has been engaged as superintendent of the John Magee estate, Mount Kisco, N. Y.

E. A. Feters of Detroit has left for Cleveland to look after the affairs of Smith & Feters during the absence of Mr. Smith on an extended trip.

Robert MacNiff, a traveler for Wm. Elliott & Sons, New York, was seriously injured in a runaway smash-up on Long Island, January 10. He is still on crutches.

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	Last Half of Week ending Jan. 19 1907	First Half of Week beginning Jan. 21 1907		Last Half of Week ending Jan. 19 1907	First Half of Week beginning Jan. 21 1907
Roses			Carnations, Ordinary	2.00 to 4.00	2.00 to 4.00
Am. Beauty, fan and sp.	50.00 to 75.00	50.00 to 75.00	Violets, double	.50 to .75	.50 to .75
extra	25.00 to 30.00	25.00 to 30.00	single	.50 to 1.00	.50 to 1.00
No. 1	15.00 to 20.00	15.00 to 20.00	Paper White Nar., Roman Hy.	1.50 to 2.00	1.50 to 2.00
Lower grades	3.00 to 8.00	3.00 to 8.00	Tulips, Daffodils	3.00 to 6.00	3.00 to 6.00
Bride, 'Maid, Golden Gate, fan & sp	12.00 to 20.00	12.00 to 20.00	Cattleyas	30.00 to 50.00	30.00 to 50.00
" " " No. 1 & Ex.	8.00 to 12.00	8.00 to 12.00	Lilies, Callas	12.00 to 16.00	12.00 to 16.00
" " " low grades	4.00 to 6.00	4.00 to 6.00	Freesia	1.00 to 3.00	1.00 to 3.00
Liberty, Richmond, fancy & special	20.00 to 35.00	20.00 to 35.00	Gardenias	25.00 to 50.00	25.00 to 50.00
lower grades	4.00 to 12.00	4.00 to 12.00	Lily of the Valley	1.50 to 3.00	1.50 to 3.00
Chatenay, Morgan, fancy and spec.	12.00 to 20.00	12.00 to 20.00	Mignonette	4.00 to 12.00	4.00 to 12.00
lower grades	4.00 to 8.00	4.00 to 8.00	Adiantum	.50 to .75	.50 to .75
Killarney, Wellesley, fan. and spec.	12.00 to 20.00	12.00 to 20.00	Smilax	10.00 to 15.00	10.00 to 15.00
lower grades	4.00 to 8.00	4.00 to 8.00	Asparagus Plumosus, strings	25.00 to 35.00	25.00 to 35.00
Carnations, Fancy	6.00 to 10.00	6.00 to 10.00	" " & Sprenger, bunches	15.00 to 25.00	15.00 to 25.00

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6 x 12 x 24	10.50
6 x 12 x 30	12.50
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	CINCINNATI January 22	DETROIT January 21	BUFFALO January 21	PITTSBURG January 21
ROSES				
Am. Beauty, Fan, and Sp.	50.00 to 60.00	60.00 to 75.00	50.00 to 70.00	50.00 to 60.00
" Extra	30.00 to 40.00	50.00 to 60.00	35.00 to 45.00	25.00 to 35.00
" No. 1	15.00 to 20.00	30.00 to 40.00	18.00 to 25.00	12.00 to 15.00
" Lower grades	8.00 to 10.00	15.00 to 25.00	..... to .....	..... to 6.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	10.00 to 12.00	12.00 to 15.00	12.00 to 15.00
" " " " No. 1 & Ex.	4.00 to 5.00	8.00 to 10.00	4.00 to 10.00	3.00 to 5.00
" " " " low grades	3.00 to 4.00	6.00 to 7.00	10.00 to 12.00	8.00 to 10.00
Liberty, Richmond, Fan, & Sp.	..... to 8.00	8.00 to 10.00	4.00 to 10.00	3.00 to 5.00
" " " " Lower grades	4.00 to 6.00	6.00 to 7.00	5.00 to 10.00	15.00 to 20.00
Chatenay, Morgan, Fan, & Sp.	..... to 8.00	8.00 to 10.00	10.00 to 15.00	6.00 to 12.00
" " " " Lower grades	4.00 to 6.00	6.00 to 7.00	5.00 to 15.00	..... to 75.00
Killarney, Wellesley, Fan & Sp.	..... to	8.00 to 10.00	..... to	6.00 to 10.00
" " " " Lower grades	..... to	6.00 to 7.00	..... to	12.50 to 18.00
CARNATIONS				
Fancy and Novelties	3.00 to 4.00	3.00 to 5.00	4.00 to 5.00	4.00 to 5.00
Ordinary	1.00 to 2.00	2.00 to 3.00	2.00 to 3.00	1.50 to 2.00
MISCELLANEOUS				
Violets, Double	.50 to 1.00	1.00 to 1.50	75 to 1.25	.75 to 1.25
" Single	.50 to 2.00	1.00 to .....	.50 to 1.00	.50 to
Paper White Nar., Roman Hy.	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Tulips, Daffodils	3.00 to 5.00	3.00 to 4.00	3.00 to 4.00	..... to 4.00
Cattleyas	..... to	5.00 to .....	..... to .....	..... to
Lilies, Callas	12.50 to 15.00	..... to .....	..... to .....	..... to
Freesia	..... to	3.00 to 4.00	5.00 to 20.00	15.00 to 20.00
Gardenias	..... to	35.00 to	2.00 to 3.00	2.00 to 4.00
Lily of the Valley	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00
Mignonette	..... to	6.00 to 10.00	3.00 to 5.00	2.00 to 4.00
Adiantum	..... to 1.00	1.00 to 1.50	.50 to 1.00	1.00 to 1.50
Smilax	12.50 to 15.00	12.50 to 15.00	12.00 to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	50.00 to 60.00	40.00 to 50.00 to 50.00
" " & Sprenger, bunches	25.00 to to	25.00 to 30.00	40.00 to 50.00

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S. S. Skidelsky, 824 N. 24th St., Phila.
Rose Pink Enchantress.
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Chicago Carnation Co., Joliet, Ill.
Carnations Aristocrat and Red Riding Hood.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Carnations, Winsor, White Enchantress, Helen M. Gould.
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J. W. Howard, Somerville, Mass.
Carnation Debutante.
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A. J. Guttman, 43 W. 28th St., New York.
John E. Haines, Bethlehem, Pa.
Carnation Imperial and Pink Imperial.
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F. Dörner & Sons Co., Lafayette, Ind.
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Guttman & Weber, 43 W. 28th St., N. Y.
Carnation Victory.
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H. A. Stevens Co., Dedham, Mass.
Rooted Cuttings.
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Warwick Greenhouses, Warwick Neck, B. I.
Rooted Cuttings.
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A. W. Williams, Highland, N. Y.
Carnations Rooted Cuttings.
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Scheiden & Schoos, 60 Wabash Ave., Chicago.
Carnation Cuttings.
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Peter Fisher, Ellis, Mass.
Cottage Gardens Co., Queens, N. Y.
Carnation Beacon.
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N. Y. Cut Flower Co., 55-57 W. 26th St., New York. J. A. Millang, Mgr.
Carnation Winsor Blooms.
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Valley View Greenhouses, Marlborough, N. Y.
Rooted Cuttings.

Cottage Gardens Co., Queens, N. Y.
Selected Carnation Cuttings.

Carnations, All rooted cuttings. These prices for January delivery. Per 1000:

Enchantress\$50 B. Market\$15

Bountiful 25 Lawson 15

Cardinal 25 Harlowarden ... 15

100 at same rate. Cash with order.

Smith & Gannett, Geneva, N. Y.

We can furnish several thousand unrooted cuttings of Fair Maid and Queen Louise for immediate delivery at \$6.00 and \$5.00 per thousand. Cohanize Carnation Greenhouses, New London, Conn.

Healthy rooted carnation cuttings. Queen Louise, Hill, Gomez, Norway, Boston Market, \$9.00 per 1000. Melody, \$5.00 per 100. Red Lawson, \$15.00 per 100. Lawson, Harlowarden, Mrs. Nelson, \$12.50 per 1000. White Cloud unrooted, \$4.00 per 1000. Wm. Ehmann, Corfu, N. Y.

CHRYSANTEMUMS.

Egging Floral Co., 1653 S. Grand Ave., St. Louis, Mo.
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Charles H. Totty, Madison, N. J.
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Chrysanthemums. Jeanne Nonin, C. Touse, Mrs. Brice, Roi d'Italie, Fred Lemon, Merza, Cobbold, M. Ware, Oct. Sunshine, Beauty of Sussex, \$2.00 per 100. Glory Pacific, Kalb, Monrovia, Polly Rose, Alliance, Mrs. Robinson, J. Shrimpton, Bride, Bonnafton, Halliday, Duckham, Cullingford, Mrs. Chamberlain, Arline, Ermenilda, W. Bonnafton, Princess, M. Friend, Nellie Pickett, Lincoln, W. Jones, G. Wedding, Ben Wells, Yellow Eaton, Enguehard, Mrs. Weeks, Appleton, G. Trophy, Florence Teal, A. Balfour, Intensity, Mme. Perrin, \$1.50 per 100; \$12.50 per 1000. Wm. Ehmann, Corfu, N. Y.

Is Your Name In The Above List? If Not, Why Not?

CONIFERS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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DAHLIAS.

David Herbert & Son, Atco, N. J.
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W. P. Lothrop, Brockton Dahlia Farm, E. Bridgewater, Mass.
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J. K. Alexander, E. Bridgewater, Mass.
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DECORATIVE PLANTS.

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS.

Dracaena terminalis from bench, fine \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

FERNS.

A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitmanii.
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H. N. Eaton, So. Sudbury, Mass.
Boston Ferns.
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P. R. Quinlan, Syracuse, N. Y.
Nephrolepis Whitmanii and Elegantissima.
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F. R. Pierson Co., Tarrytown, N. Y.
Tarrytown Fern.

FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' FERTILIZER.

Pulverized Manure Co., 31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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FLORISTS' SUPPLIES.

N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.
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M. M. Robinson & Co., 8-11 Province St., Boston, Mass.
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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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J. Stern & Co., 125 No. 10th St., Phila.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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FLORISTS' WAGONS.

Edward Higgins, 1 W. 28th St., N. Y.
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FLOWERS BY TELEGRAPH.

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Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
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Thos. Young, Jr., 41 W. 28th St., New York.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Young & Nugent, 42 W. 23th St., New York.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Av. & 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.
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W. H. Ernest, 28th and M Sts., Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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Syracuse Red Pots.
Syracuse Pottery Co., Syracuse, N. Y.
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FLOWER POT HANDLE AND HANGER.

W. C. Krick, 1164-66 Greene Ave., Brooklyn, N. Y.

FORCING PLANTS.

Bobbink & Atkins, Rutherford, N. J.

GALAX.

N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Robinson & Co., 8-11 Province St., Boston.
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Michigan Cut Flower Co., Detroit.
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N. Lecakes & Co., 53 W. 28th St., N. Y.
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Caldwell the Woodsman Decorating Co., Evergreen, Ala.
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J. N. Pritchard, Elk Park, N. C.
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Bronze and green galax. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

Galax leaves, leucothoe sprays, dogger and fancy ferns, green and bronze. Write F. W. Richards & Co., Banner Elk, N. C.

GERANIUMS.

R. Vincent, Jr. & Son, White Marsh, Md.
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GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin, N. Y.

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Gladioli. C. Betscher, Canal Dover, O.

GLASS.

Boston Plate & Window Glass Co., Boston.
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GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square, New York.
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Hitchings & Co., 1170 Broadway, New York.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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Weathered Co., Box 789, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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GREENHOUSE HOSE.

Mineralized Rubber Co., 18 Cliff St., N. Y.
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HARDY FERNS AND SUPPLIES.

N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Robinson & Co., 8-11 Province St., Boston, Mass.
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The Kervan Co., 20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 and 40 Miami Ave., Detroit, Mich., Wm. Dilger, Mgr.

Fancy Ferns.
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E. A. Beaven, Evergreen, Ala.
Fadeless Sheet Moss.
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N. Lecakes & Co., 53 W. 28th St., N. Y.
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Hardy cut ferns. L. B. Brague, Hinsdale, Mass.

Fancy ferns, green sheet moss; leucothoe sprays, etc. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

HARDY PERENNIALS.

M. H. Walsh, Woods Hole, Mass.
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HEATING APPARATUS.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square, New York.
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Hitchings & Co., 1170 Broadway, New York.
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John A. Scollay, 73 & 75 Myrtle Ave., Brooklyn, N. Y.
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Gurney Heater Mfg. Co., 188-200 Franklin St., Cor. Pearl, Boston, Mass.
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Kroeschell Bros., 35 Erie St., Chicago.
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W. H. Lutton, West Side Ave., Jersey City, N. J.

For Sale - The most complete stock of Hardy Perennials, Dahlias and other Bulbs, for Spring planting at reduced prices. Get list. Palisades Nurseries, Sparkill, N. Y.

HORICUM.

Hammond's P. & S. S. Works, Fishkill-on-Hudson, N. Y.

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HOT-BED SASH.

The A. T. Stearns Lumber Co., Neponset, Mass.
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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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HOT WATER CIRCULATOR.

Holly-Castle Co., 170 Summer St., Boston.

JAPANESE PLANTS.

Yokohama Nurseries, 31 Barclay St., N. Y.

KENTIAS.

Godfrey Aschmann, 1012 Ontario St., Philadelphia.
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A. Leuthy & Co., Roslindale, Mass.
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LEADING RETAIL FLORISTS.

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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Eyes, 11 N. Pearl St., Albany, N. Y.
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Young & Nugent, 42 W. 28 St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.
Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Av. & 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.
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NICO-FUME.

Ky. Tobacco Product Co., Louisville, Ky.

NURSERY STOCK.

John Waterer & Sons, Ltd., American Nursery, Bagshot, England.
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Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.
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John Scheepers & Co., 2-6 Old Slip, N. Y.
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ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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A Held, 11-19 William St., New York.
Orchids for Spring Delivery.
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PALMS.

A. Leuthy & Co., Roslindale, Mass.
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PATENTS.

Siggers & Siggers, Washington, D. C.
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PEONIES.

Edward Swayne, West Chester, Pa.
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Peonies, 1200 sorts. Greatest list anywhere. C. Betscher, Canal Dover, Ohio.
Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PLANT BED CLOTH.

Mineralized Rubber Co., 18 Cliff St., N. Y.
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PRIMROSES.

Harlowarden Greenhouses, Greenport, N. Y.
Chinese Primroses.
Chinese primroses, 4-in., Sc. Obconica, 4-in., 6c. In bud and bloom. J. H. Ziegler, Rowenna, Pa.

PRIVET.

250,000 California privet, all sizes. Send for trade list. Valdesian Nurseries, Bostic, N. C.

PRUNING SHEARS.

Rhodes Mfg. Co., Grand Rapids, Mich.
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RHODODENDRONS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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Bassett & Washburn, Hinsdale, Ill.
Rooted Cuttings of Kaiserin, Pres. Carnot, La Detroit.
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Paul Niehoff, Leighton, Pa.
Rose Aurora.
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Robert Scott & Son, Sharon Hill, Del. Co., Pa.
Grafted Roses.
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Wm. Elliott & Sons, 201 Fulton St., N. Y.
Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1/4-in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to the late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass.
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Joseph Breck & Sons, 51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co., 33 Barclay St., New York.
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Henry A. Dreer, Philadelphia.
Superb Petunia Seed.
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A. T. Boddington, 342 W. 14th St., N. Y.
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James Vick's Sons, Rochester, N. Y.
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W. W. Rawson & Co., 5 Union St., Boston.
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Hjalmar Hartmann & Co., 12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Rickards Bros., 37 East 19th St. New York.
Asparagus Plumosus Nanus Seed.
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Johnson Seed Co., 217 Market Street, Philadelphia.
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Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.
Aster Seeds, home-grown, strictly pure. Prices right. Nathan Smith & Son, Adrian, Mich.

SHEEP MANURE.

Pulverized Manure Co., 31 Union Stock Yards, Chicago.
Wizard Brand.

SHEET MOSS.

E. A. Beaven, Evergreen, Ala.
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SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.
Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash H. R. Akers, Chatsworth, N. J.

STEAM TRAP.

E. Hippard, Youngstown, O.

TOMATO SEEDS.

Wm. Sim, Cliftondale, Mass.
Comet Tomato.
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VENTILATING APPARATUS.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
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Weathered Co., 46 and 48 Marlon St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VINCAS.

10,000 vincas 2 1/2 in. fine, \$2.50 per 100; \$20.00 per 1000. R. Cuttings same, \$1.00 per 100; \$7.00 per 1000. Cash, please. Benj. Connell, West Grove, Pa.

VIOLETS.

H. K. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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WILD SMILAX.

E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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Caldwell the Woodsman Decorating Co., Evergreen, Ala.
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WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

Wire work, all kinds. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

William E. Hielscher's Wire Works, 38-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

WHOLESALE FLORISTS.

Boston.

N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Robinson & Co., 15 Province St., Boston.
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George A. Sutherland Co., 34 Hawley St., Boston.
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Welch Bros., 228 Devonshire St., Boston.
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Buffalo.

Wm. F. Kasting, 383-87 Ellicott St., Buffalo, N. Y.
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Chicago.

Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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A. L. Randall Co., 19-21 Randolph St., Chicago.
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E. F. Winterson Co., 45-49 Wabash Ave., Chicago.
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Poehlmann Bros. Co., 35 Randolph St., Chicago.
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WHOLESALE FLORISTS—Continued
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Michigan Cut Flower Exchange, 38 & 40 Broadway. Wm. Dilger, Mgr.
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J. K. Allen, 106 W. 28th St., New York.
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Wm. Stuart Allen Co., 53 W. 28th St., New York.
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C. W. Eberman, 53 W. 30th St., New York.
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J. S. Fenrich, 110 W. 28th St., New York.
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Ford Bros., 48 West 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 West 28th St.
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E. C. Horan, 55 West 28th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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John I. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Traendly & Schenck, 44 W. 28th St., New York.
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A. L. Young & Co., 54 W. 28th St., N. Y.
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John Young, 51 W. 28th St., New York.
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Philadelphia.

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
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The S. S. Pennock-Meehan Co., 1608-18 Ludlow St., Philadelphia, Pa.
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Edward Reid, 1528 Ranstead St., Philadelphia, Pa.
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Pittsburg.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
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New Offers in This Issue.**ASPARAGUS PLUMOSUS NANUS SEED.**

R. & J. Farquhar & Co., 6-7 So. Market St., Boston.
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ASTER SEED.

Jas. Vick's Sons, Rochester, N. Y.
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BEGONIA AND GLOXINIA BULBS.

Johnson Seed Co., Philadelphia.
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CARNATIONS, ROOTED CUTTINGS.

B. Engelman & Son, Pittsfield, Mass.
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CARNATIONS, ROOTED CUTTINGS: FERNS: CINERARIAS.

Geo. A. Kuhl, Pekin, Ill.
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CARNATION WHITE MAID.

John Barr, South Natick, Mass.
R. E. Moir, Brockton, Mass.
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New Offers in this Issue—Continued.**FLOWERS BY TELEGRAPH.**

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FORCING SPIRAEA.

Wm. Elliott & Sons, 201 Fulton St., New York.
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NEW CANNAS: ROSES: SHRUB-BERRY.

The Conard & Jones Co., West Grove, Pa.
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PHOENIX ROEBELINI SEED.

Yokohama Nursery Co., 31 Barclay St., New York.
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POMPEIIAN TONE WARE, NEW CHIFFON, ETC.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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SWEET PEA NOVELTIES.

Watkins & Simpson, 12, Tavistock St., London, Eng.
For page see List of Advertisers.

MR. WILSON'S TRIP TO CHINA.

Mr. E. H. Wilson, who will spend the next two years on a botanical exploration tour in China in the interests of the Arnold Arboretum, sailed from San Francisco for Shanghai on January 8. He will proceed at once to Ichang, at the base of the gorges of the Yangtse, where he will establish his permanent base for the first year. This will be devoted to the exploration of the Tapashan, the great mountain range of Hupeh, that separates the waters of the Yangtse from those of the Han. In February or March of 1908 Mr. Wilson intends to ascend the Yangtse and Min Rivers to Kia-Ting-Fu, in Ssu-chuan, which will be his base for the second year. From Kia-Ting-Fu he will travel overland, by the way of Mounts Omei and Wa, to Ta-Chen-lu, the Chinese frontier town on the highway from central China into Tibet. After exploring the great forests of conifers and rhododendrons in this mountainous region, he will travel north from Ta-Chen-lu in an attempt to penetrate a part of northwestern Ssu-chuan not before visited by Europeans, then descending the Min River valley he hopes to reach Ichang in February, 1909, and return to Boston the following April or May.

By an agreement with the Department of Agriculture of the United States, Mr. F. N. Meyer, who has been in China during the last two years as an agent of the Department, is to collect for the Arboretum during the spring and autumn of 1907, under the direction of Mr. Wilson, on Mt. Wuti, in Sansi. This is one of the five sacred mountains of China, and, owing to its holy character, it is believed to be still covered with the original forest growth. Although Wuti has been visited by Potanin, and later by H. Mayr, little is known of the mountain flora of this part of northern China.

Mr. John E. Thayer, of the Class of '85, has joined to the Wilson expedition a young zoologist to collect the birds, mammals, and reptiles of central and western China, which are still very imperfectly represented in American and European museums.

MECHANICAL WATERING.

By Louis Wittbold.

Read before the American Carnation Society at Toronto.

I have been asked by your secretary to give my views on mechanical watering, and I wish to ask whether any of us believe that the present mode of watering cannot be improved upon. If we look back at the different things that have been accomplished all along the line in greenhouse construction and heating, etc., even in watering, inasmuch as the hose has superseded the can, we certainly must admit that there is always room for still further improvement. It is only a short time ago when all watering in greenhouses was done with the watering can, and we all know with what prejudice the hose was looked upon as a factor in greenhouse work. This prejudice has gradually been overcome until today even our cousins across the water are using rubber tubes to save time and labor.

The improvements in construction, pumping machinery, specializing of stock grown, etc., have made possible a saving of a large part of the labor of watering. Formerly a mixture of different kinds of plants were grown in one greenhouse in one grand conglomeration, and, of course, each different species of plant needed different care and special attention, and the watering pot or hose could hardly be dispensed with, but at the present time, where houses or ranges of houses of one kind of plants are grown when conditions are equal or as nearly equal as it is possible to get them, this has been changed and a watering machine can be applied and the labor of watering, which formerly took hours, can now be done in so many minutes, with less waste of water than with the hose and with more accuracy in its distribution.

The question will, of course, be asked, What have I to prove the above assertions? And I must admit it is a natural question, as talk is cheap and facts are what we want in this year 1907. Gold bricks are good things for the "con game" man, and we can hardly be blamed for being skeptical about things which are not entirely clear to us and familiar with; but is it fair to allow prejudice to put a brake on improvement when every minute of time saved is money in our pocket, and when a labor which now must be attended to by the most experienced can be mechanically arranged so that after it has been studied out to the satisfaction of the proprietor he can give his instructions so that water is given in just the amounts he has by experience found best for the good of the plants.

I have been asked to give my experience up to date, and will say that I at first started using a watering system for syringing palms by running a pipe along underneath the plants in center of bench, using my patent nozzles, which produces a sheet of water

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in fan shape, so that when these nozzles are spaced along the pipe they will produce a sheet of water the full length of pipe. Pipe is connected with a swivel wheel so it can be turned, so that if soil only should be watered the nozzles can be turned downward so that soil only is wet without wetting the foliage, and by turning the nozzles upward the foliage can be sprayed. In this way, I was able to water or syringe my palms when required with a saving of at least 90 per cent. of time and labor. I then used system for watering Boston ferns suspended overhead in the greenhouse, hanging a plant directly under each nozzle so that by turning on the water just a little the water will come from nozzle in a solid stream and flow into the pot, just as much as is wanted, causing only the drip from the water that runs through the soil, while with a hose at least 90 per cent. of the water would drop on to the plants below; then by turning on full pressure the plants can also be sprayed or syringed if required. In this way I have been enabled to grow double the amount of stock in my palm houses and with less labor than previously used. I now have a large portion of our two ranges of palm and fern houses equipped both at our Lake View place and at Edgebrook, and am working on more lines right along, as I find the time saved will pay for the outlay in a short time.

The next experiment I made was at Davis Bros.' cucumber houses, Aurora, Ill., and I quote you the following from a letter: "It saves 90 per cent. of our watering labor. We now have the Wittbold system in all houses. Do the watering in an hour, which formerly took twelve hours, and do better work. We are recommending the system to our friends." I wish to say that Davis is using it now for the second winter and is much pleased.

The next experiment was in lettuce at Chamberlain & Bunker's, Fremont, Mich., and the letters I have received from these gentlemen have given me much encouragement. I only mention these two places as a few facts; more would only tire you, and would only be a repetition of what these gentlemen have said. You gentlemen are representative carnation growers. and I wish to ask if a watering system can be applied in palm and fern houses, in cucumber and lettuce houses, why cannot it also be applied in carnation houses?

The pipes and nozzles can be so placed that you can water from underneath the plants, that you only water the soil, or spray upward, from underneath the plants or downward from above, just as the case may require. I am no carnation grower, but from what experience I have had in other lines I say it can be done, and it only needs some one to take up the idea with determination to overcome what obstacles are in the way, as I

firmly believe that mechanical watering is practical and will save thousands upon thousands of dollars every year in labor to the greenhouse man when it is understood and will do better work than can be done in any other way. Let me suggest that steps be taken by the American Carnation Society to determine the value of mechanical watering by experimenting or otherwise during the coming year, so that more definite reports can be had at next meeting.

I assure you, gentlemen, it will be worth your while.

OLD COLONY NOTES.

John Derringer, Quincy, Mass., has the foundation in for a new two-bench sash house to be used for growing geraniums. Mr. Derringer says that the trade in bedding plants shows a substantial increase every year.

Brooks Adams, Quincy, Mass., will dispense for the present with the services of a professional gardener in the care of his grounds, and A. B. Cottman, who has been serving Mr. Adams in that capacity, has terminated his engagement.

Thomas Pegler, who took the Brown houses at Wollaston, Mass., in July, has evidently entered upon the course pursued by Malcolm Orr, who grew violets at this place with marked success. Hydrocyanic fumigation administered with careful attention to detail, to destroy the black fly, and a liberal top dressing of fine manure applied at mid-season, are a part of the methods pursued.

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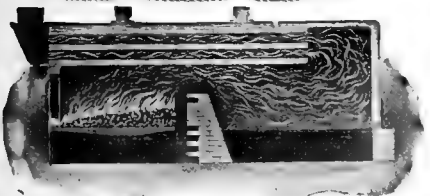
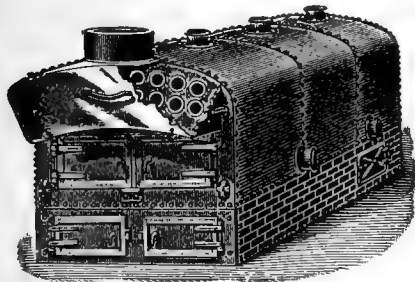
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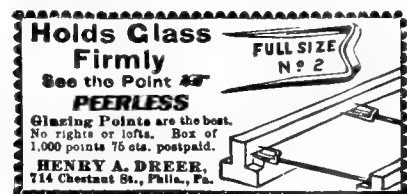
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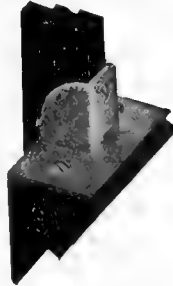
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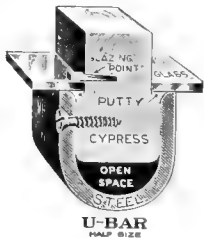
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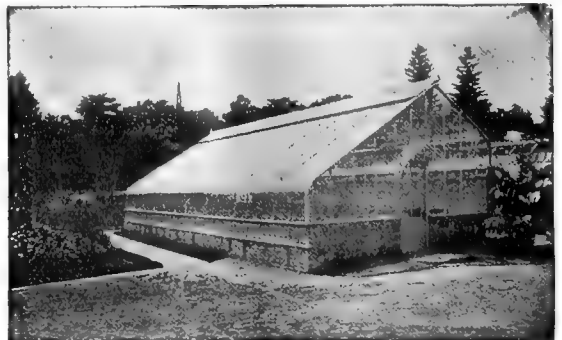
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HORTICULTURE

Vol. V.

FEBRUARY 2, 1907

No. 5



FRED. H. LEMON
President elect American Carnation Society

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Nature has surely surpassed herself! In a single season she has outstripped all efforts of man. In fact, such distinct new types have never even been dreamed of before.

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The Burpee-Improved is an entirely "New Creation." The pods are truly enormous in size, borne in great abundance upon bushes two and one-half feet high by two feet across. The beans are both larger and thicker than those of the popular *Burpee's Bush Lima* or any strain of the large White Pole Lima.

Fordhook Bush Lima This is altogether unique. Nothing like it has ever been seen before. It is the first and *only* stiffly erect Bush form of the fat "Potato Lima." Both pods and beans are twice the size of *Dreer's* and more than half again as large as the *Challenger Pole Lima*.

\$1115.00 in Cash Prizes for 1907

With one prize of \$150.00, several of \$50.00 each, we will pay a total of \$1115.00 on these **Two New Bush Limas**. For particulars, see *page 28 and page 109 of BURPEE'S FARM ANNUAL FOR 1907*.

These Bush Limas are sold only in sealed packets. Each packet contains twelve perfect hand-picked beans. **Per pkt. 25 cts.**—less the discount of one third on Retail Packets,—making **3 pkts. for 50 cts.; 6 pkts. for \$1.00, or \$2.00 per dozen pkts., postpaid and assorted as desired.**

NEW "FORDHOOK" BUSH
LIMA,—Life-Size Pod.

BURPEE'S FARM ANNUAL FOR 1907

"The Leading American Seed Catalog." The "*Silent Salesman*" of the world's largest mail order seed trade. An Elegant New Book of **200 pages** with hundreds of illustrations from photographs, it tells only the plain truth about the very best **SEEDS THAT GROW**.

It describes Grand Novelties in Flowers and Vegetables, of unusual importance, which cannot be obtained elsewhere. If interested, write to-day,—name HORTICULTURE,—and the book is yours.

BURPEE'S NEW "BLUE LIST"

Most complete of all wholesale catalogs of seeds, gives Special Prices to Florists and Market Gardeners. If you have not received a copy, **Write To-day**.

With our usual discount of $33\frac{1}{3}\%$ on Retail Packets, Florists and Market Gardeners (who order *early!*) can obtain **THESE TWO NEW BUSH LIMAS** at the rate of any **3 pkts. for 50 cts.; 6 pkts. for \$1.00; or 12 pkts. for \$2.00**, assorted as desired, and sent by mail, postpaid.



BURPEE-IMPROVED BUSH LIMA,—
Life-Size Pod.

W. ATLEE BURPEE & CO., SEED GROWERS, Philadelphi
BURPEE BUILDING, Philadelphia, Pa.

Masdevallia towarensis



One of the best, if not the very best of the masdevallias, is the exquisite, dainty, sweet little towarensis, a native of Tovar, Colombia. Its pure white, fragrant, pretty flowers attract the attention of almost everyone who sees it. For decorative work where small plants are desired it is unexcelled. Unfortunately, it is not adapted for cutting as its flowers are borne on scapes which are persistent for a long time carrying several crops of flowers.

In the accompanying photograph the scape shown at the extreme left is now flowering for the third time. It matured its first flower in August, another in October and is now carrying two. The old bracts, in the axils of which the flowers appear, are plainly seen in the picture. It is one of the hardiest, very easy to grow, requiring similar treatment to *M. coccinea*, *M. Veitchii* and other popular species of the gems. In a previous note I advised that all masdevallias should have a warmer winter treatment than is generally advised. This is the secret of their successful culture. At present all our masdevallias are making strong, healthy growths and will be in a suitable condition to withstand the hot humid weather in summer, whereas under the old treatment of keeping cool and dry they would scarcely have commenced to grow before the hot weather was upon them.

The editorial page of the issue of HORTICULTURE, Dec. 29th, contains a quotation from Dr. Lindley aptly quoted to show the value of orchids for decorative purposes. The whole of Dr. Lindley's remarks, however, are not strictly true, as a good many orchids do secrete honey, and I think that *M. towarensis* is amongst the number. About this same subject Kerner says:

"Several orchids, especially species of Twayblade (*Listera*) exhibit a channel swollen with sweet sap, similar to the Martagon lily, each perianth leaf of which is transversely by a channel studded with bands

or ramified swelling and filled to overflowing with the abundant nectar secreted in it. In the perianth of the Helleborine (*Epipactis*) the lip is deeply grooved and resembles a boat filled with honey. In *Epipogium* the perianth leaf corresponding to the lip is arched like a helmet or cap and covers the abundant honey there produced. In many other orchids the lower lip of the perianth is produced backward and in the expansion (called the spur in descriptive botany) a quantity of honey is usually hidden."

James Hutchison

Cycles of the Amaryllis

(Continued from Page 5.)

The first of the cycles of the amaryllis extended from 1710 to about the year 1800. Belladonna was introduced 1712, *Reginæ* 1720, equestre 1710, and psittacium as early as 1677. Up to this period, owing to the very few greenhouses there were in all Europe and the limited opportunities for cultivation, and the small demand for flowers, comparatively few plants were grown.

The second and a most important cycle extended from 1780 to 1830, during which time several species were introduced, notably pulverulentum 1819, aulica, two forms, 1820, and stylosum 1821, and numerous very beautiful hybrids were raised between the species *Reginæ*, vittata and aulica, and these hybrids—as Johnsoni and Ackermanni—really opened the way to the raising of the many beautiful varieties of that period. It was in this decade that Dean Herbert, Curtis, Griffin, Ker, and the elder Garraways so ably championed and aided these, their favorites, to a position they so richly deserved.

The greatest cycle, however, is the one from 1830 to 1870. During that time the species ambiguum 1836, solandriflorum 1839, pyrochroum 1863, pardinum 1866, Leopoldi 1869, were introduced, the two latter particularly giving such an impetus to the raising of seedlings, especially those raised by the Messrs. Williams and Veitch. It is from these collections, either directly or indirectly, that a very large majority of all the finer varieties we are now cultivating were obtained and this brings me to the point where, with all the confidence I am possessed of I assert that we are now on the verge of a cycle when the amaryllis will take its place as the most brilliant and effective of decorative plants for all purposes. It hardly seems necessary to call attention to the many forms of treatment to which the amaryllis is adaptable, whether singly in pots, or in pans or plaques, or in baskets of from five to a score or more, as plants, or in vases and other receptacles, as cut flowers.

The superb coloring, of all shades, from the most intense crimsons to the tinted flesh colors, is only to be found in this beautiful family, and when we consider the certainty of having them in flower when wanted, as, either by retarding or forcing they may be

bloomed at any time, as are lily of the valley, their importance is unquestioned. In these days, when the increase in the demand for first rate grown pot plants is such that the supply is not equal to it the amaryllis is one of the most available plants for the purpose. They can be grown as readily and as quickly as the cyclamen if the routine of cultivation is followed as given herein. For this purpose it is important that care be taken to obtain seed of that group in which the vittata branch is the most pronounced, rather than that of the aulica group—the former has from four to six flowers in a scape whereas the latter has only two or three flowers. First-class seed can be had from first-class seedsmen. You do not want seeds of either straight vittata, Johnsoni, Ackermanni or aulica, but the seeds from the modern hybrids—those possessing fine coloring, bearing three or more flowers on a spike, and with good foliage. After the first crop of flowers the careful cultivator will save his own seed from such varieties as have the most desirable properties. They seed as freely as freesias, and are very prolific.

John Thorpe

(The next chapter will deal with their cultivation.)

British Horticulture

A RETROSPECT

In taking stock of horticultural matters in Britain in 1906 the growers have had an exceptional year as to the weather. There was a "record" as regards sunshine. The exceptional autumn enabled immense quantities of outdoor bloom to be marketed. The amount of chrysanthemums sent to Covent Garden market this season was unprecedented. Naturally the prices have ruled very low. The special societies have held successful exhibitions, whilst the new Winter Flowering Carnation Society has held its first show, which was of a very encouraging character. The chief event of the year was the Hybridization Conference in the summer, arranged by the Royal Horticultural Society. A distinguished gathering of experts assembled from all parts of the globe, and the discussions were of a profitable and practical character. At the Royal Botanic Gardens at Kew, Sir Wm. Thiselton Dyer, the director, has retired, and has been succeeded by Col. Prain, formerly of the Calcutta Botanic Garden. The Royal Horticultural Society has had a busy year, with a record of prosperity. The Royal Botanic Society whose headquarters are at Regent's Park, has not been so fortunate. There have been some stormy meetings at which several members have freely and forcibly criticised the managing body.

ARBOR DAY

British people have been somewhat slow to adopt the American custom of observing Arbor Day. Thanks to the enterprise of Mr. E. D. Till, some progress has been made with the movement at Eynsford, in Kent. The event was lately carried out when a number of trees were planted in the village by the lady students of the Swanley Horticultural College. The first observance was at the Queen Victoria Diamond Jubilee in 1897. The school bank was planted with a row of trees, arranged in emblematic form to spell the text from Proverbs, "My son be wise." An orchard of

cider apples, and a variety of fruit trees by cottagers and farmers were also planted. On the year of the Queen's demise there was planted a row of emblematic trees, recording Tennyson's line, "She wrought her people lasting good." On one occasion a weeping lime, a plane, and a sycamore were planted in the village to commemorate the relief of Mafeking, Lady-smith and Kimberley during the South African war. An effort is now being made to further popularize Arbor Day in this country. There are numerous places where it would be advantageous to secure the shelter of trees and to improve the landscape. Fortunately local authorities are realizing the importance of making some provision in this respect, although there is a great deal to be done before our cities are able to offer the tree-sheltered avenues which are the delight of Paris.

SOME NEW SWEET PEAS

There is no lack of novelty in the sweet peas now being offered by the leading British raisers. The great attention which is being given to this branch of horticulture by the trade testifies to the increasing popularity of this annual. Messrs. Dobbie & Co. are sending out Mrs. Collier, which received a certificate of merit last year from the National Sweet Pea Society. It is of a primrose tint, and blooms are of good size and substance, and freely produced. Albatross is a fine white, and Blush Queen is of the tint its name implies, a useful variation from Gladys Unwin. These are also Messrs. Dobbies' introductions. Mr. C. Breadmore, a well-known prize winner, is making a specialty of Helen Lewis, which was awarded the National Sweet Pea Society's silver medal as the best novelty of 1905, and their first-class certificate. The standard is of a delicate shade of orange, which contrasts well with the deep rosy salmon wings. The form is of the Countess Spencer type. Mr. Breadmore also has Tweedy Smith, a new bi-color, and Cecil Crier, a handsome bloom of a deep, rosy pink tint. Amongst his other recent introductions are George Herbert, with rosy magenta standards, and deep carmine wings; Evelyn Breadmore, pearly white; and Lady Cooper, a lavender self.

SOME WEM NOVELTIES

Growers always look forward with interest to the novelties emanating from Mr. Eckford where a large proportion of the present day favorites were raised. There is a useful batch which are likely to be in demand for show purposes. The Queen of Spain won unstinted praise at last year's shows. It is described as a soft pink of ivory clearness, and the stout stems enhance its value for decorative work. Agnes Eckford is a bold bloom of an exquisite shade of pink, and the plant is of a robust character. Horace Wright, named after the former secretary of the National Sweet Pea Society is an advance on the existing blues, and it is likely to be as popular as its namesake. Earl Cromer offers a delightful combination of tints very pleasing to the eye. The bloom is of a crimson lake hue; the back of the standard is overlaid with a rich red chocolate tint, the inside of the standard and wings being shaded with soft lilac. Frank Dolby is a lavender blue, similar to Lady Grisel Hamilton, and E. J. Castle is of a striking bright rose, shaded with pale soft salmon.

W. H. Adsett.

The Cyclamen for Christmas

The cyclamen will repay the grower for any thought or care he may expend and to have a full bloom for the Christmas sales no detail should be neglected. Our method which has given us a good measure of success is as follows: We get the very best seed obtainable and sow about August 1st. We find seed pans better than boxes for seed sowing. Use a compost consisting of one part loam, one part sand (not too finely screened) and three parts leaf mould. Place the seed one-half inch apart over the surface, cover lightly and firm the soil and water in. The pans should be on a shady bench with a temperature of about 60 degrees. Cover with glass or sifted sphagnum until the seed comes through, then remove to a bench where there is more light, but the same temperature. Our especial aim at this stage of growth is to keep the young plants stocky. When they have two or three leaves they are ready for two-inch pots and the soil should be the same as before. If the potting is carefully attended to the plants will scarcely feel the shift and in about six weeks the strongest may be taken out and potted up. Watering is a most important matter at all times. We depend entirely on syringing until the plants are in three-inch pots, going over them two or three times a day according to the weather.

From January on the young cyclamens make a rapid growth, a certain percentage always stronger than the rest, and the potting should be carried on as required, never letting any become pot-bound. Towards the end of May we remove to the frame house with sides open and through the hottest part of the day we use shading cloth, say from 10 A. M. till 4 P. M. Careful watering and syringing are essential points during the hot months and we have found plunging the pots half way in peat moss a great saving of labor as it reduces the watering one-half. July brings to the final potting of the earliest plants and for this we use the following soil: Three parts leaf mould, two of fibrous loam, one of well-decayed cow manure and one part sand. Care should be taken not to pot deeply; half the corn should be left above the soil. We use new pots for this shift, giving a generous amount of drainage, say, one large crock and some charcoal. As the nights begin to get cool we remove to a light airy house giving the plants plenty of room and all the sunlight possible. The night temperature from 55 degrees to 58 degrees with a rise of from 10 degrees to 15 degrees in the daytime. When the buds begin to show we give weak manure water once a week, using sheep manure, Clay's fertilizer and soot as a change. It is never wise to give strong manure in any form nor to raise the temperature high.

The treatment described above matures our plants by Christmas but should you want the bloom to be later 50 degrees of heat through the night will be ample.

John H. Price

Overbrook, Pa.

Growers' Organizations

The banding together of growers has met with such dismal failure in so many cases that to reopen the subject may cause many to smile. But the Rogue River apple growers of Oregon have a society which has been a success for so many years that one is led to believe that they have hit upon one or two essential points.

As a rule the apple growers, the pear men, the peach raisers or whoever they may be have, after uniting in some kind of a society, by mutual agreement tried to boost prices. As a result they have been mired by the largeness of the task. They have not encouraged competition, in fact, they have fought rather shy of it. And here is the first point scored by the Rogue Riverites. Instead of going to their local buyer and saying, "Take it at our price, or leave it," they begin to estimate the crop as soon as the thinning is done, and then send a statement of the exact conditions broadcast throughout the country, asking everybody who is interested in fruit buying to come and bid for the entire crop. Thus the growers protect themselves by calling into play competition among the buyers. It may be said that the buyers will combine. Even if this is done the growers will obtain the best prices. Such combination has not occurred, however, the instinct of self-preservation still being strong, especially in the heart of a fruit buyer.

A second point, and one well worthy of consideration is the sorting. No Rogue River man sorts his own fruit. He calls in his neighbor who will sort much closer because of his unbiased judgment. A box marked with the society's stamp is known to tell the truth about the contents, and such confidence commands the very highest prices.

It is too often true that the commercial fruit buyer will take advantage but he is only human, and too often has been educated into it by the tactics of his growers. Every man with a little fruit tries to gamble as hard as he can with it and he looks on the buyer as legitimate prey.

Grow a good article, stand behind it, affix a fair price and when you get it don't be like the young woman who told her uncle she would be perfectly happy with two hundred dollars. He, wishing to see such a sight as a thoroughly satisfied woman, gave her the money only to hear her remark as she left the room, "I wish I had made it three hundred."

R. J. Adams.

Let Horticulture Work For You

If you have anything to sell to florists, gardeners, park superintendents, seedsmen, let this paper sell it for you. It is the cheapest representative you can send out for it reaches thousands of good buyers once a week and the cost is only a trifle. Tell your story in HORTICULTURE's advertising columns and the best people in the profession will surely see it and read it.

HORTICULTURE

VOL. V

FEBRUARY 2, 1907

NO. 5

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 05.

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;

six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass. under the Act of Congress of March 3, 1879.

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being a disappointment. Hybridizers who keep this in mind and are successful in the efforts to intensify fragrance in the progeny produced will, we think, find that they have made no mistake in so doing. The carnation's popularity will be materially strengthened when fragrance shall have "caught up" to present achievements in size, color, and form.

The communication in this issue concerning Growers' Organizations among the fruit producers, from the pen of

R. L. Adams, has some very familiar strains in it for anyone who has had to deal with the problems of wholesale cut flower marketing. The agreement to submit all sorting and grading to one's neighbors is especially interesting, and has something in it that makes it worth watching. The results of the arrangement will be observed with interest, and we hope Mr. Adams will make a later report on its workings. Fruit marketing and flower marketing have considerable in common and we all have much to learn.

Preparing
for the Queen of Flowers

We publish in this issue the list of special trophies which have been contributed towards the premium list for the annual exhibition of the American Rose Society which is to open in Washington, D. C., on March 13. A perusal will convince anyone that the Washington brethren and the rosarians generally are fully determined to make this event the equal (or better) of the great event at Boston last March which was, in many respects, the most notable occasion in the history of rose culture in America. The regular schedule of the American Rose Society together with these special prizes and the liberal premiums offered by the Washington Florists' Club in the general exhibition classes, would seem to insure a fine display and a large gathering of the craft. The rose, in its relation to the florist trade and to the public, is certainly worthy of all the pre-eminence that can be given it on this important occasion and the Rose Society should have the loyal enthusiastic support especially of every one whose livelihood depends in whole or in part upon the prosperity of the Queen of Flowers.

The Carnation
Society and its debtors

The Toronto carnation convention was a success from every point of view. The society is stronger, fraternal relations have been established anew, incentive and encouragement have been absorbed and carried to remote places, the literature of the carnation has been enriched and the industries which hold fellowship with the divine flower will reap material and permanent benefit. Second to none in the functions of such an organization is the bringing into cordial personal relations men widely separated but with a common aim, the making of friendships which, working ever as a unify-

We are conscious of a lively responsive sentiment when reading John Birnie's plea for a better recognition of the qualification of fragrance in the production and the judging of carnations. A carnation or a rose devoid of fragrance is to the average

Fragrance
a chief attribute

ing force, endows the organization with irresistible strength and vitality. How lamentable it is that the great majority of those most directly affected by the work the societies are doing are so insensible of the benefits they participate in and the obligations they are under to the societies and to their more public-spirited fellows who are contributing and doing what they can for the uplifting of their profession. The convention was a success but it would have been an immeasurably greater success had each beneficiary of the Carnation Society's activities done his duty.

An Oppressive Boiler Inspection Law Proposed

In the Boston Journal, January 17, there appeared an article under the head of "Boilers Inspection Bill Kills Lap-Seam Type." After reading it through I thought it would come pretty hard upon the florists and others using that style of steam boiler. The paper says, "First and foremost it aims to put the lap-seam boilers out of existence," then again, that "lap seam boilers shall not be installed except that they be vertical internally-fired hoisting boilers." I procured a copy of the bill (Senate No. 61) at the document room in the State House.

Market gardeners, farmers and florists have hitherto been exempt from the inspection laws. Section 78, Chapter 102, of the Revised Statutes says:

"No person shall have charge of or operate a steam boiler or engine in this Commonwealth except boilers and engines upon locomotives, motor road vehicles, boilers in private residences, boilers in apartment houses of less than five flats, boilers under the jurisdiction of the United States, boilers used for agricultural purposes exclusively, boilers of less than eight horse power and boilers used for heating purposes exclusively which are provided with a device approved by the chief of the district police limiting the pressure to fifteen pounds to the square inch, unless he holds a license as hereinafter provided. The owner or user of a steam boiler or engine other than boilers or engines excepted shall not operate or cause to be operated a steam boiler or engine for a period of more than one week unless the person in charge and operating it is duly licensed."

Section 80, same chapter, the words "have charge" or "in charge," in the two preceding Sections shall designate the person under whose supervision a boiler or engine is operated. "The 'person operating' shall be understood to mean any and all persons who are actually engaged in generating steam in a power boiler." Boilers used to generate steam for pumps, I think, come under the head of power boilers.

The proposed new law cuts out from the exempted list boilers used for agricultural purposes exclusively. It seems very strange that the latter is taken out of the exempted class and boilers in apartment houses of less than five flats are left in the exempted class. I cannot see how or why boilers in apartment houses are exempted and we are put by the proposed law on the open list. The proposed law, as I can interpret it, means that we will have to have a licensed fireman. I wish to call the attention of all who read this and are users of steam boilers to procure a copy of the proposed law.

Senate No. 61, and also Sections 78 to 86, Chapter 102, of the Revised Laws, concerning boiler inspection and read them carefully, make it a point to see the member of the Senate or House for his district and lay the matter before them and try to get us left on Section 78, Chapter 102, as it reads at present. Copies of the above can be had at the document room at the State House, Boston.

Ex-president Wheeler in the December meeting said, "Stand by the new officers." Yes, that is courtly and pointed advice, which we all ought to observe. Make it possible to have harmony so that the club may keep on its onward way, and to do this give the officers every possible support. And right here I would add that it would be a good thing if the club would take action at once on this boiler question. A club of such prominence would carry much weight with it. Let the executive committee do something tangible at once.

Robert McWilliam

Calanthes



A few weeks ago a correspondent in HORTICULTURE wrote enthusiastically of the gorgeous display of calanthes in bloom to be seen at Whitinsville, Mass., under cultivation by George McWilliam. The illustration given herewith shows a few spikes of those calanthes. In the group are a few *V. luteo-oculata* and *rubro-oculata*, but the rest are of greatly improved types, such as *Veitchii compacta*, a unique variety, and *Veitchii superba*, the result of twenty years' selection by Mr. McWilliam, and the beautiful hybrid *Sandhurstiana*. In the front are two spikes of a white seedling unnamed as yet. It has not yet reached its full strength, but the flowers have a breadth and thickness of petal unapproached in any of the older sorts and are of a pure glistening white. When it is stated that the flower spikes here shown measured from three to four and a half feet in height the beauty of a house with thousands of spikes in bloom may be faintly imagined.

AMERICAN CARNATION SOCIETY.

Washington Secures the Next Meeting—F. H. Lemon Elected President

Delay in delivering of a telegram prevented the announcement of the transactions at the closing session of the American Carnation Society at Toronto in our issue of last week. The first business transacted at the afternoon session Thursday, January 24, was the selection of a place for the convention of 1908. The friends of both Indianapolis and Washington worked like beavers. The knowledge that Indianapolis had already entertained the Carnation Society twice and that Washington had never enjoyed that honor although it had twice asked for it decided the question and Washington was chosen by a close vote, after which the ballot was made unanimous and three cheers were given for the magnificent generosity shown by Indianapolis in inviting the Society for a third time.

During the counting of ballots papers were read on Carnations in England by Herman Simmers, the authors being Messrs. C. Englemann, A. F. Dutton, and Wm. Stacey, also a paper on Carnations in Denmark from Peter Riise and on Mechanical Watering from Louis Wittbold. Mr. Wittbold's paper was presented in full in the last issue of HORTICULTURE.

C. W. Ward gave some of his experience in shipping carnations to Europe. He had found that cuttings shipped after February 1 arrive in bad condition as a rule. Plants from pots give much better results but this is very much more expensive. Referring to the question of hybridizing he said he had long since eliminated the English border carnation as a blood desirable for use in pollinating American varieties and believes that the English growers will also get better results if they confine themselves to the pure American blood.

An extended discussion was indulged in concerning the comparative value of "side shoot" cuttings and so-called "top cuttings." Mr. Ward contended that the top cutting is not so likely to make a flowering plant. Many members explained their methods of taking and making cuttings. Mr. Ward asked for the appointment of a committee to confer with representatives of the American Breeders' Association with a view to a combined exhibition at Washington next year.

It was voted to start a subscription fund for the benefit of the family of the late James Hartshorn and Phil. Hauswirth of Chicago was selected to act as treasurer of same.

Election of officers was next proceeded with, under considerable excitement. The result of the voting was the election of Fred. H. Lemon of Richmond, Ind., as president by a

vote of 54 out of 63, and on motion of Mr. Weber who had presented the opposing name the vote was made unanimous. By unanimous vote Peter Bisset of Washington was elected vice-president; Albert M. Herr, secretary; Fred Dorner, Jr., treasurer; Wm. Gammage, Toronto, Ont., director, and W. N. Rudd, Chicago, judge for three years. The committee on final resolutions, Messrs. Gillett, Gammage and Swayne made report thanking the Canadian florists and the civic officials of Toronto for their generous hospitality.

THE BANQUET.

The banquet tendered to the visitors on Thursday evening was a splendid affair. The spacious banquet hall of the Queen's Hotel was completely filled with an enthusiastic and happy throng. The tables were resplendent with carnations, among which Winsor predominated. The menu was of the best and between the witty or instructive speeches in response to the toasts that followed the lighting of cigars vocal and instrumental music of a high order was interspersed. At the head of the hall the Stars and Stripes and Union Jack were crossed. President Dunlop occupied the seat of honor, president-elect Lemon at his left.

The opening toast to "The King and the President" was followed by the singing of one stanza each of "God Save the King" and "America." The toast to "Canada and the United States" was proposed by Mr. F. R. Pierson. The last meeting, he said, had been held at Boston, which city had set a high standard difficult to equal. It was the home of floriculture, perhaps without its equal in the United States. "I want to say," said Mr. Pierson, "that Toronto has out-Bostoned Boston with the most successful meeting in the history of the society." In referring to Toronto's cordial reception he said:—"We are glad to say that there is no Governor Swettenham in Canada." He applauded the sentiment expressed by the Lieutenant Governor in his address on Wednesday that all commercial barriers between Canada and the United States should be removed. He asked C. W. Ward of New York to respond as a Canadian citizen and Wm. Algie of Toronto as a citizen of the United States. Mr. Ward was very witty in his cross-allusions, many of which elicited merry applause. "I want to tell you Yankees," he said, "that if any of your warships come to Canada we shall endeavor to send them back with the least possible laceration of their feelings." Mr. Algie, who assumed the part of a citizen of the U. S. delivered an address replete with international goodwill. He asserted that he understood his subject as, years ago, he had found

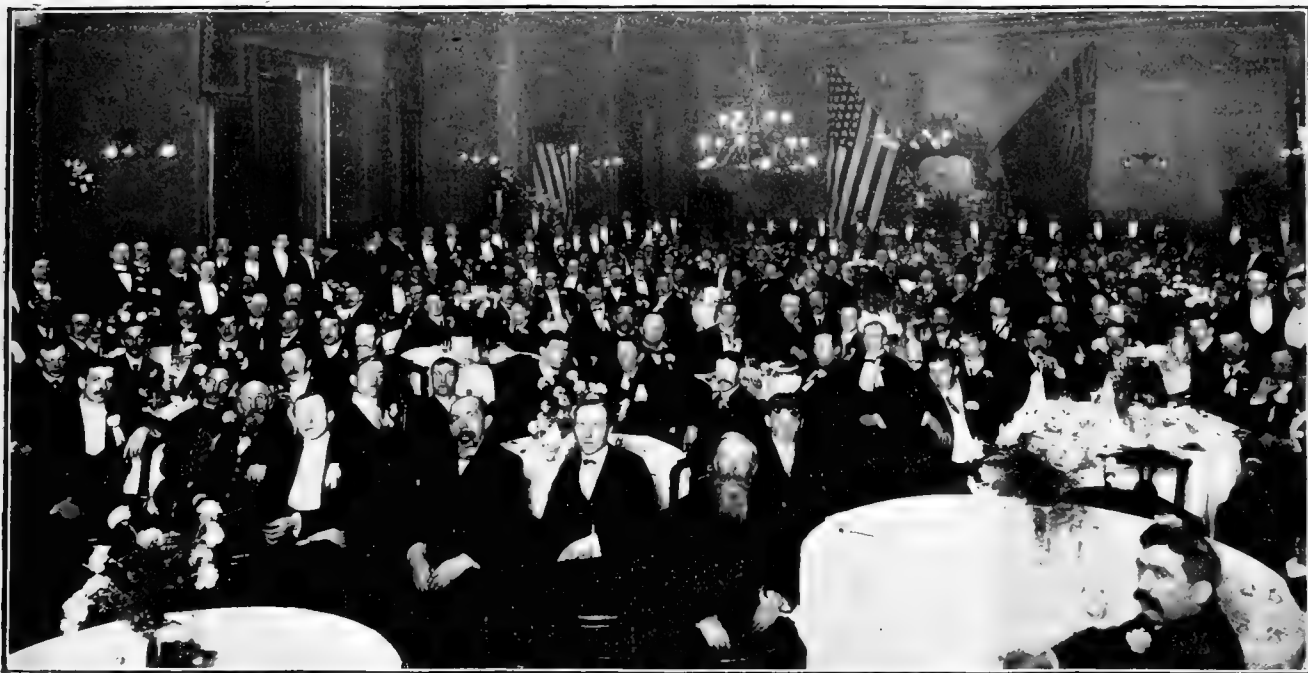
his wife near Boston—a veritable "pink and white Enchantress," and concluded with a recitation which brought down the house.

Mr. R. J. Score proposed the "Mayor and Corporation," the response being made by Alderman J. J. Graham in the absence of his Worship the Mayor. Mr. Graham declared that interchange of the people as in events like this is doing much to weld the friendship existing between the two countries.

A joint toast to the Society of American Florists and the Canadian Horticultural Society was proposed by T. W. Duggan and responded to by president W. J. Stewart and secretary P. J. Hauswirth of the S. A. F., and president Thos. Manton of the C. H. S. Mr. Stewart referred to the blending of the colors of England and America as an exemplification of the sentiment expressed by the great poet of the brotherhood of mankind, whose birthday anniversary would dawn on the morrow and recalled how sixteen years ago a similar blending of the flags had led the S. A. F. to go from Boston to Toronto as the Carnation Society had done on this occasion and to go thence to Washington, the capitol city, as also the Carnation Society had now voted to do. Mr. Hauswirth spoke enthusiastically concerning the coming convention at Philadelphia and urged a large attendance of those present on this occasion. He made also a strong plea for support for the great international flower show to be held in Chicago in 1908. Mr. Manton's theme was that nationalities are forgotten in our profession and that "if we are good gardeners and good florists we're brothers." He quoted lines from Burns "For a' that and a' that" and promised a hearty welcome every time his hearers should come to Canada. Mr. Manton's remarks gave extreme pleasure. A guest sitting near the writer whispered, "Tom Manton gets his patent of nobility direct from God Almighty."

"The American Carnation Society" was proposed by Wm. Gammage, who dilated enthusiastically on its unlimited possibilities. President-elect Lemon, E. G. Gillett and J. A. Valentine responded. Mr. Lemon asked for equal support for next year as had been so freely given this year. Mr. Gillett gave some interesting historical notes in the Society's career. Mr. Valentine avowed that in his visit to Toronto he had learnt a new meaning for the word "hospitality" and voiced his appreciation for the courtesies extended to the Society.

W. N. Rudd was then called upon to present the trophies from the exhibition to their several winners which he did with characteristic placid imperturbability, referring to the affair as the "American invasion," appreciative responses being made by Messrs.



BANQUET TO THE AMERICAN CARNATION SOCIETY AT THE QUEENS HOTEL, TORONTO

F. R. Pierson, W. J. Lawrence, C. W. Ward, Eugene Dailledouze, R. Witterstaetter and A. J. Guttman.

The toast, "The Allied Societies," was proposed by Joseph Bennett of Montreal who said that while the large societies are doing national work the local bodies are equally useful in their respective spheres. W. F. Kasting and H. B. Frankland were asked to respond. Mr. Kasting urged that the allied societies should get into closer touch with each other. He made allusion to the proposed exhibition at Chicago and solicited the help of every organization in making it a success. Mr. Frankland made a good speech, also, eliciting frequent applause. John Chambers being called upon expressed his delight at meeting so many American brethren as guests and extended an invitation for all to come again next summer when the American Park Superintendents are to meet in that city.

The toast to the "Horticultural Press" was presented by H. M. Altick who paid a glowing tribute to the power of the press, without which a successful convention would be an impossibility and extolling its perseverance and fortitude in its uphill work for recognition. J. Austin Shaw responded. Mr. Shaw's address was a classic, full of sentiment, wit and prophecy which we should like to present in full if space were available. Further response to this toast was made by H. B. Cowan of the "Canadian Florist" who told of the fascination of journalistic work and the grand sphere it is destined to fill.

The closing toast to "The Ladies" was done full justice to by the proposer, H. Simmers and the responder, L. E. Marquisee. The ladies had been entertained during the evening at the Princess theatre. It was not far from 2 A. M. on January 25 when "Auld Lang Syne" was sung. During the exercises W. J. Lawrence, the gifted tenor, Mrs. Alice Edwards, contralto,

and the Blight Male Quartette sang several selections in delightful manner, eliciting tumultuous applause and encores that could not be refused.

CANADA'S POSSIBILITIES.

(Extracts from the speech of C. W. Ward in response to the address of welcome to the American Carnation Society at Toronto.)

That which impresses Americans most when they consider their Canadian neighbors is the vastness of the still undeveloped resources of Canada. From the Atlantic to Lake Winnipeg, and from the northern boundary of Lake Superior to near the southern shore of Hudson Bay, are still standing countless thousands of millions of valuable timbered forests, and the same is true along the western borders of the Rocky Mountains, among the Selkirks and bordering the Pacific Ocean from Vancouver northwards to Alaska. While I have no figures to support the assertion, I will risk the opinion that Canada has today ten times the area standing in original forests than now remains in the United States, and the day is not far distant when the largest proportion of the timber consumed in the United States must of necessity be drawn from Canadian forests. Again, Canada has almost exhaustless deposits of both anthracite, bituminous and splint coals, the extent of which have not yet been determined, but which may be fairly said to reach along the base of the Rocky Mountains from the northern border of the United States well up into the Saskatchewan region and possibly to the shores of the Arctic Ocean—the granary of the American Continent. A large proportion of the agricultural lands lying between the Muskoka Lake district and the Atlantic Ocean are particularly adapted to the raising of wheat, barley and oats, and serve to lend additional importance to Canada's immense grain productiveness, and the same can be said of a

large part of the forested area lying between the Selkirk Range and the Pacific Ocean.

A considerable portion of the lands lying along the borders of the United States are well adapted to the raising of apples, pears, plums and cherries, so that the Canadian people need not suffer for the want of wholesome home grown fruits. Canadian florists have already made their mark as expert growers of greenhouse products, and on no part of the American Continent are better and more perfect roses, carnations, chrysanthemums and violets produced than are grown by the leading florists of Toronto and its contiguous territory.

When we come to compare the people of Canada with those of the United States, we find them to be practically of the same type and practically of the same origin. They are essentially American, each as much as the other. They are a vigorous, virile and energetic race, the result of the development of the human family upon this vast American Continent, actuated by the same high ideals of brotherhood, honesty and fair dealing, and both nations bent upon the development of our Continental resources to the utmost. Our people being practically a homogeneous one, there can be no such race differences as exist upon the European Continent, where several radically different types of mankind are cooped up within narrow boundaries which are so densely populated that annual migrations to other sections of the world are absolutely necessary in order to even up the struggle for existence, and we should live in peace and harmony, free for all time from the discords that have perennially arisen among the densely populated nations of Europe. The people of the United States hold the people of Canada in high respect and esteem. They are glad to see Canada develop and the Canadian people prosper. No jealousy or envy of Canadian prosperity exists

among them, and they will always stand ready to greet their Canadian brethren and applaud their accomplishments and exploits, and will always wish Canada "God speed" and the maximum measure of development that she may fulfil to the fullest extent her manifest destiny.

ADDITIONAL NOTES OF THE CONVENTION.

The Boston exhibitors were very unfortunate in having their boxes delayed twenty-four hours through some stupidity of the express company. On their arrival on the morning of the second day, however, they were found to be in splendid shape and staged beautifully—a convincing demonstration of the sturdiness of their growth and a hint as to what might have happened to other exhibits that had won high honors if these consignments had been in competition. Beacon from Peter Fisher was superb; so was Afterglow from Mr. Nicholson, Helen Goddard from S. J. Goddard and Roper's striped seedling Bay State. The boys took their misfortune philosophically—not a whine.

The vases of one hundred were the strength of the exhibition. Ward, Pierson, Haines, Chicago, Carnation Co., and Dailedouze were in the front rank. The comparative scarcity of crimson (or "maroons") in the general display was very noticeable. A few years ago this color was much more prominent. Baur & Smith showed a new variety May somewhat on the order of Fair Maid.

Certificates were awarded to John Reimels' No. 32, Nicholson's Afterglow, Roper's Bay State and Weber's Torador.

A vase of Richmond rose from the Bedford Park Floral Company was one of the most remarkable exhibits staged. Nothing finer has ever been seen in this variety and we hope Mr. Houle, the manager, will show up at Washington with an equally convincing demonstration of the possibilities in this unrivalled rose.

The Steele, Briggs Company showed some very creditable specimens of *Primula obconica*, giant strain, on the stage.

THE VISIT TO BRAMPTON.

On Friday morning a special train of five cars on the C. P. R. conveyed the visitors to Brampton to inspect the immense greenhouse establishment of the Dale Estate. Much has been written about this notable place, its vastness, and the high cultural conditions and methods there in evidence, and on not a few occasions the roses, carnations and lily of the valley produced have found their way to the leading American markets and exhibitions, making short work of the aspirations of local growers. It certainly has lost none of its vastness, but grows vaster. Roses were off crop, but there was a great showing of carnations which, considering the fact that the present is the darkest and most unfavorable winter ever experienced here, were all that could be desired. The "ridge and furrow" houses, tile benches, heating apparatus, ammonia refrigerating machinery and complete modern equipment in all departments were exceedingly interesting to the visitors.

CARNATION MABELLE.



This excellent variety which is being disseminated this season by The H. Weber & Sons Co., Oakland, Md., is recommended as a very profitable variety, requiring about the same treatment and temperature as *Enchantress*. Its description by Messrs. Weber is as follows:

"Mabelle (1907), pink, a few shades lighter than *Lawson*, showing no traces of lavender and purple, but instead is permeated by a faint yellow-

ish cast, making an exceedingly beautiful and popular color. The blooms are large and well formed; under favorable conditions attain four inches in diameter. Odor pleasing, but not spicy. Calyx good, practically non-bursting. Habit not unlike *Genevieve Lord*; a very early and continuous bloomer, giving long stems right from the start. This variety has the much prized habit of producing very early, and keeping it up until July."

MASSACHUSETTS HORTICULTURAL SOCIETY.

The first exhibition for the year 1907 was held at Horticultural Hall, Boston, on Saturday, January 26. *Primulas sinensis*, *obconica* and *stellata* were shown in splendid shape by M. Sullivan, gardener to Wm. Whitman, who took first and third prizes in all classes. Mr. Graham, gardener to C. R. Talbot, who took second on *sinensis*, and Wm. Thatcher, gardener to Mrs. J. L. Gardner, who won second on *stellata* and *obconica*, also by George M. Anderson. Carnations were shown in fair quantity. C. S. Strout won first in white with *Lady Bountiful* and in Daybreak class with *Enchantress*. H. A. Stevens Co. won first in light pink with a salmon seedling, crimson with Harry Fenn, striped with *Variegated Lawson*, and "any other color" with a white and pink flushed seedling. Quinick Greenhouses were awarded honorable mention for *Victoria*, a very shapely flower, *Lawson* pink in color. On violets, Harry F. Woods won first and Norris F. Comley, second, on both double and single.

Warren Heustis & Son, E. L. Lewis and others showed some excellent vegetables.

The lecture in Horticultural Hall on January 26 was a talk on orchid collecting by John E. Lacer. Mr. Lacer gave a very interesting description of the methods and the dangers of this work and the mode of packing, ship-

ping, etc. He said the most interesting and important field for orchid collections is Columbia; Venezuela and Brazil are second and third. He described in some detail his visits to the different orchid regions, and in conclusion stated that the prospects for the future are not encouraging. The search for orchids has led many natives to go into collecting, but in many cases they know nothing of the proper methods of securing, packing and shipping the plants. Last year alone several hundred boxes of orchids came from South America in which every plant was ruined by carelessness or ignorance, and one native can do more harm in an orchid region in one year than a collector would do in ten.

THE ILLINOIS STATE FLORISTS' ASSOCIATION.

The second annual meeting of this society takes place at Bloomington on February 19 and 20, and promises to be a large and very interesting gathering. All introducers of new varieties of roses and carnations are solicited to send blooms for exhibition to George A. Washburn, Bloomington, chairman of exhibition committee. Through the efforts of a committee consisting of A. C. Beal, A. T. Hey and J. F. Ammann the society has secured an increased appropriation of \$1,000 on State fair premiums, and has a Bill before the Legislature for an appropriation of \$25,000, for experimental work in floriculture.

NEWS OF THE CLUBS AND SOCIETIES

AMERICAN ROSE SOCIETY.

Schedule and Programme for the Washington Exhibition.

The Executive Committee of the American Rose Society had a full meeting on Wednesday evening, Jan. 23rd, at the Hotel Martinique, New York city. The interest manifested in the coming show, from various parts of the country, was most encouraging.

The special prize schedule which we have to offer is greater than ever before gathered together and several more will be added to the list, the determination being to make this a very successful exhibit.

A committee was appointed to wait on President Roosevelt and invite his presence at the show as may suit his convenience.

The schedule of the society will be issued within a very few days.

Special Prizes of the American Rose Society.

Fifty blooms American Beauty rose, the "Executive Committee's" prizes: \$50.00, \$25.00.

The Lord and Burnham Trophy, valued at \$250.00, presented by the Lord and Burnham Co., will be awarded in conjunction with the first (cash) prize for fifty American Beauty roses in this class, and will become the property of the competitor winning it twice, consecutively or otherwise. Won once by Waban Rose Conservatories and once by George Burton, Chestnut Hill, Pa.

The best display of cut roses, all varieties. The Dorrance Challenge Trophy, value \$250.00, offered by Benj. Dorrance; the winner to hold the trophy a year and on relinquishing it to the society for another competition, at the end of that period to receive a silver shield suitably engraved, as a permanent record of his having held the trophy.

Fifty blooms of Goldea Gate, Silver Cup, value \$50.00, offered by Geo. H. Cooke, Washington, D. C.

Fifty blooms Wellesley, Silver Cup, value \$50.00, offered by John H. Taylor, Bayside, N. Y.

Best exhibit of Rambler Roses in pots, not less than 12 plants, Silver Cup, value \$50.00, offered by Robert Simpson, Clifton, N. J.

Fifty blooms of Mme. Abel Chateau, Silver Cup, value \$50.00, offered by Traendly & Schenck, New York City.

Fifty blooms Richmond, Silver Cup, value \$25.00, offered by Henry F. Michell Co., Philadelphia, Pa.

Fifty blooms Killarney, \$25.00 in Gold offered by Dingee Conard Co., West Grove, Pa.

Fifty blooms Liberty, \$25.00 offered by W. H. Elliot, Brighton, Mass.

Fifty blooms Bridesmaid, Silver Cup, value \$25.00, offered by S. S. Pennock-Meehan Co., Philadelphia, Pa.

Vase of roses showing the most artistic arrangement in the exhibition, \$25.00, offered by Welch Bros., Boston, Mass.

Fifty blooms Richmond, \$25.00 in Gold offered by E. G. Hill Co., Richmond, Ind.

Fifty blooms of any variety of American origin now in commerce, a Silver Cup, value \$25.00, offered by Alexander Montgomery, Natick, Mass.

American seedling not yet introduced, Silver Cup, value \$25.00, offered by H. O. May, Summit, N. J.

Collection of Hybrid Wichuriana, Silver Cup, value \$25.00, offered by Frank R. Pierson, Tarrytown, N. Y.

Twenty-five blooms Bride, \$12.00 in cash offered by L. B. Coddington, Murray Hill, N. J.

Six or more blooms of any new rose never before exhibited, \$10.00 in cash offered by Mrs. S. C. Briggs, Washington, D. C.

Foliage rose suitable for village door yards, \$10.00 in cash, offered by Benjamin Hammond, Fishkill Landing, N. Y.

Display of Ivory, \$10.00 in cash offered by Benjamin Hammond, Fishkill Landing, N. Y.

Twenty-five blooms General MacArthur,

\$15.00 in cash offered by Edward Hatch, 22 Devonshire St., Boston, Mass.

Prettiest Exhibit, to be decided by three ladies visiting the Washington show, \$5.00 in Gold offered by Miss M. I. Hammond, Fishkill-on-Hudson, N. Y.

One hundred American Beauty, \$100.00 in Gold offered by A. Gude & Bro., Washington, D. C. There must not be less than five entries for this prize.

American Rose Society's Medals for Novelties—General Competition.

Gold medal for the best new rose not yet disseminated, whether of domestic or foreign origin. Exhibits to be judged by the official scale of the American Rose Society, and no gold medal to be awarded to any rose scoring less than 95 points.

Silver medal is offered at the same time and under the same conditions for a novelty scoring not less than 85 points.

It is further ordered that the complete scores of all entries in the competition be filed with the Secretary of the American Rose Society before the award of any medal is confirmed. No duplicate medals will be awarded. It is understood that though the award of gold or silver medal may be made to the same variety from one exhibitor exhibited in different centers, only one medal will be delivered to the exhibitor.

The Executive Committee of the American Rose Society reserves to itself the right of selection of the judges, who shall pass upon the exhibits in the competition for these medals.

BENJAMIN HAMMOND,
Secretary.

DETROIT FLORIST CLUB.

February 6 will be a banner evening with the club, as this is the date for the carnation show. All growers of novelties are invited to exhibit and requested to forward their products to the Michigan Cut Flower Exchange, Detroit. Express charges will be paid by the local club if necessary.

PITTSBURGH AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The regular meeting of the club for January was not held until the 22d, when it was combined with a smoker. At the business session, officers to serve the club for 1907 were put in nomination, detail business was attended to, and the club indicated Mr. E. C. Reineman as their choice to represent western Pennsylvania as vice-president in the S. A. F. Mr. Reineman was a charter member of our club, and no one attends to meetings more regularly or has its interests more at heart. Of independent fortune he retired from active business as a florist several years since, but he has never forgotten his first love or the friends of his old days. He will doubtless make an efficient and able vice-president.

The subject selected by the club for its next meeting, Tuesday, Feb. 5, was "Carnations". Following close as it does on the Carnation convention at Toronto, which was attended by several of our members, it is expected it will be a very interesting meeting and exhibit.

With the close of the business session the members were free to give their attention to the smoker.

There was a minstrel show with amusing "gags" on many of the prominent members of the club, refreshments in great abundance and cards and smoking in profusion. It was the small hours of the morning before the happy gathering dispersed.

H. P. JOSLIN.

DREER'S SUPERB DOUBLE PETUNIAS



For nearly half a century we have been making a specialty of **DOUBLE PETUNIAS** and our strain is accepted as second to none, either here or in Europe. We annually plant many thousand seedlings from which only the finest double fringed forms are selected for propagating purposes, this improving the strain every season, and this year's collection is the brightest and most pleasing one we have yet sent out. We offer fifteen distinct varieties.

3 inch pots, 75c per doz. \$8.00 per 100 the set of 15 for \$1.00.
2 1/2 " " 60c " " 4.00 " " " " " 75c.
SEED OF OUR SUPERB STRAIN OF FRINGED PETUNIAS; Double, 75c per 500 seeds; \$1.50 per 1000 seeds. Single, 50c per trade packet.

Our Quarterly Wholesale List offers a full line of seasonable Plants, Seeds and Bulbs.

HENRY A. DREER, Philadelphia, Pa.

CARNATION WINSOR

We have not advertised Winsor until now because we have not had to. It is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders and have a fine lot of stock on the cutting bench, so that we can promise, for the present, February delivery on orders received within a short time at least.

If you have not already purchased a stock of this, you should lose no time doing so. We are going to sell more Winsor than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market, where our flowers are sold.

There is nothing on the market that approaches Winsor to-day in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities—in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high-quality flowers. It practically does not split at all. Notwithstanding the fact that we have had the darkest, duller winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with every one, we have not had one-half of one per cent. of split calyxes or Winsor—in fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement, extravagant as it may appear.

Any one who fails to plant Winsor this year will regret it. Rose Pink Enchantress is good, and a good many other varieties are good, but if you want the winner, plant Winsor.

We not only have a good thing in Winsor, but we are delivering good stock. As a sample of the testimonials that we are receiving, see this space in last issue. We are trying to give 110 cents on the dollar, and guarantee to please everybody with the stock sent out, or we will not ask you to pay for it. We have still to receive our first complaint, and we have shipped between one and two hundred thousand cuttings to date.

STRONG ROOTED CUTTINGS, February delivery, \$12.00 per 100, \$100.00 per 1,000.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

COLUMBUS FLORISTS' CLUB.

The January meetings of our club have been the most successful and valuable to the members of any in its history. We have had very creditable displays of carnations and decorative plants. M. B. Faxon's special prize of a year's subscription to *HORTICULTURE*; went to our president, Sherman Stephens for a splendid display of carnations. In Mr. Stephens' collection were: Victory, Enchantress, Pink Enchantress, Flamingo, Lady Bountiful, and Mrs. Patten; quoting my old friend K. Finlayson, "The conditions which have prevailed during the past two months, call forth the subtlest skill of the plantsman's art"—this display of carnations brought these words to my mind. Other exhibitors were: Fifth Avenue Floral Company, carnations and violets; I. D. Siebert, Pandanus Veitchii; M. B. Faxon, Primula obconica; Robert Currie, Araucaria excelsa; Franklin Park Floral Company, Pink Enchantress. These displays were all good. We have added another new member, Andrew Bluhm, with the Clover Hill Greenhouses. During the evening some very enjoyable music was furnished by Miss Williams and Carl Knopf. The committee on prizes, consists of Messrs. Williams, Bealer, Metzmaier, Torrey and Hills. We had a long discussion regarding coming exhibitions, for it is contemplated holding some good ones during 1907.

TOLEDO FLORISTS' CLUB.

Carnations were the topic at our last club meeting, and it was a pity

that the meeting was so poorly attended, but the severe cold night kept, probably, a good many away. It was a most lively discussion among those present, and the bunch of carnations sent by the Chicago Carnation Co., and which we thought was Aristocrat, gave us plenty of stuff to talk about. The scarlet seedling exhibited by our local friend, Kuhuke, deserves most careful watching; the color is fine, stem good and no faults could be seen with the cut flowers presented.

Having carnations as subject the club decided to have a special carnation show at the next meeting, and all members promised liberal support. Our nearby brothers will be invited, and the club intends to make a special effort to draw a crowd. Of course, this show will only be in the nature of a meeting in our club room, which is large enough to accommodate all we expect to get. It will also help us to bring new members into the club, and new members means new interest.

NEW LONDON HORTICULTURAL SOCIETY.

The annual meeting of this society was held in Norwich, Ct., and officers for the ensuing year were elected as follows: President, Thomas W. Head; vice-president, N. Poe Carey; secretary, A. A. Hunt; financial secretary and treasurer, R. R. Willcox. It was also voted to pay the financial secretary for his services the next year. The treasurer's report was very encouraging there being quite a balance on hand, and we are looking forward to a prosperous year.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

President Wm. J. Stewart of the Society of American Florists and Ornamental Horticulturists, announces the following appointments as Vice-Presidents for 1907:

Ala., E. A. Beaven, Evergreen; Colo., J. A. Valentine, Denver; Conn., Peter Zuger, Hartford; D. C., W. H. Ernest, Washington; Fla., C. D. Mills, Jacksonville; Ill., N. George Asmus, Chicago; Ill., S. F. L. Washburn, Bloomington; Ind., J. A. Evans, Richmond; Iowa, W. A. Harkett, Dubuque; Kan., Oscar Roehr, Topeka; Kentucky, A. R. Baumer, Louisville; La., M. Cook, New Orleans; Md., Wm. Weber, Oakland; Mass., E. L. Pierce, North Cambridge; Mich., W. E. F. Weber, Sault Ste. Marie; Minn., John Monson, Minneapolis; Miss., S. W. Crowell, Rich.; Mo., E. W. C. Young, St. Louis; Mo., W. Geo. W. Kellogg, Pleasant Hill; Nebr., Geo. H. Swoboda, Omaha; N. H., Aug. Gaedeke, Nashua; N. Jersey, C. H. Totty, Madison; New York, E. Chas. Lenker, Freeport; New York, W. C. H. Vick, Rochester; N. Car., J. Van Lindley, Pomona; Ohio, S. J. B. Heiss, Dayton; Ohio, N. Geo. Bayer, Toledo; Pa., E. P. J. Lynch, West Grove; So. Car., C. A. Moss, Spartanburg; So. Dak., C. E. Newbury, Mitchell; Tenn., C. L. Baum, Knoxville; Va., H. Brown, Richmond; W. Va., C. P. Dudley, Parkersburg; Wis., Fred Holton, Milwaukee; Ont., J. H. Dunlop, Toronto; Washington, Amy K. Luffman, Spokane.

P. J. HAUSWIRTH, Sec'y.

EASTER AZALEAS and FORCING PLANTS

ORDER QUICK FOR
IMMEDIATE DELIVERY

We have only popular New York Azaleas, such as Niobe, Schryveriana, Prof. Wolters, Simon Mardner, Vervaeana, Mme. Van der Cruyssen, Deutsche Perle, Mme. Jos. Vervaeana.

Diam.	doz.	100	Diam.	doz.	100	Diam.	doz.	100	Diam.	doz.	100
8-10 in.	\$3.50	\$25.00	12-15 in.	6.00	45.00	15-16 in.	\$9.00	\$75.00	18-20 in.	25.00	200.00
10-12 in.	4.50	35.00	14-15 in.	7.50	60.00	16-18 in.	12.00	90.00	20-24 in.	36.00	300.00



	Doz.	100
SPIREA Japonica	\$4.50	
Compacta	4.50	
Astiloides Floribunda....	4.50	
Gladstone	8.00	
H. Witte (A Great improvement over Astiloides Floribunda and one of the best; still better than the so-called Superba and Blondin.)	\$2.50	15.00
Palmata, the best scarlet variety	2.50	15.00
DIELYTRA Spectabilis , large clumps		6.00
GLADIOLUS Colvillei rubra , \$6.50 per 1000. The Bride, \$8.50 per 1000....		
AMARYLLIS , New Hybrid, all flowering size bulbs, fine strain.....	6.00	
CYTISUS LABURNUM (Golden Chain), pot grown	12.00	
DEUTZIA Gracilis. Pot grown		12.00
VIBURNUM Opulus, in bushy form. Pot grown.....	6.50	

	Doz.	100
In Standard form, very handsome. Pot grown....	15.00	
ACER Negundo Variegata. This is the so-called variegated Ash-leaved Maple, extensively forced in England for church decorations on account of the beautiful silvery foliage when forced. Extra fine strong plants, pot grown.	9.00	
CRATAEGUS , Paul's Scarlet (Double Scarlet Hawthorn), pot grown.....	\$9.00, \$12.00	\$15.00
ROBINIA Hispidia (Moss Locust Acacia), scarlet, pot grown	9.00	
AZALEA Mollis.....	\$4.00, \$9.00, and \$12.00	
Mollis chinensis.....	\$6.00, \$9.00, and \$12.00	
Mollis chinensis, Anthony Koster	9.00	
Rustica	9.00	
Mollis, in standard form.	9.00	
KALMIA Latifolia, fine budded plants.....	\$6.00, \$9.00, \$12.00	
CERASUS Avium, double white Cherry, pot grown.	9.00	
RIBES Sanguineum, pot grown	9.00	
RHODODENDRONS , best forcing varieties, according to size, \$9.00, \$12.00, \$18.00, \$24.00, \$30.00		
CRIMSON Ramblers, field grown, extra strong plants	3.00	\$20.00
Smaller plants.....	2.00	15.00
BABY Ramblers, extra fine plants, 4 and 5-inch pots..	4.00	
Imported Dormant plants. These are extra strong plants.	4.00	25.00
H. P. ROSES , a quantity of the following varieties: Gen Jacqueminot, Baroness Rothschild, Frau Karl Druschki, Duke of Edinburgh, Mrs. J. Laing, Ul-		

	Doz.	100
H. P. ROSES (Continued). rich Brunner, Paul Neyron, Mme. G. Luizet, Capt. Christy, Caroline Testout, Perle des Blanchés, Mag-na Charta. Imported plants		10.00

	Doz.	100
MONTHLY and EVER-BLOOMING ROSES , Kalserin, Hermosa, Agrippina, Belle Siebrecht, Caroline Testout, White and Pink Maman Cochet, Mad. Abel Chatenay, Gruss an Tep-litz, Mad. Jules Crolez, Killarney		12.00

The Rose bushes we offer are exceptionally strong this year, being all two year old field grown. Order now to avoid the usual disappointment.

	Doz.	100
ROSES , Standard Magna Charta		6.00

These are specially selected for forcing purposes. While Standard Roses do not force very well, we had a quantity of these last year for Easter, and they made very handsome plants.

	Doz.	100
BABY Ramblers, standard, very fine for forcing.....		15.00

BEGONIAS, TUBEROUS ROOTED

	Doz.	100
SINGLE varieties, in colors, scarlet, crimson, white, rose, yellow and orange..	.40	\$3.00
All colors, mixed.....		2.50

	Doz.	100
DOUBLE varieties, in colors, scarlet, rose, white and yellow .....	.75	4.50
All colors, mixed.....		4.00

	Doz.	100
GLOXINIAS , in leading varieties .....	.50	4.00
Mixed kinds.....	.40	3.50

We are pleased at all times to receive visitors at our Nurseries. We have 100 acres planted with the most interesting Nursery stock in the country. See wholesale catalogue.

BOBBINK & ATKINS,

Nurserymen and Florists,

Rutherford, N. J.

ELBERON HORTICULTURAL SOCIETY.

This society held its semi-monthly meeting on January 21 with President Robertson in the chair. One new member was elected. The chief exhibits were a vase of mignonette, Golden Machet, by P. Murray; Freesia Purity, by A. Bauer; single violets, by A. Grieb; Roman hyacinths, by J. Kennedy; vegetables, by F. Dettlinger. The exhibitors gave a few cultural remarks in regard to their displays which were interesting and instructive.

GEORGE MASSON, Sec'y.

CLUB AND SOCIETY NOTES.

The State Horticultural Society met at Kalispell, Montana, on January 17. Despite the extreme cold weather the display of fruit was excellent.

Prof. Wheeler of the experiment station at Kingston, R. I., lectured before the Newport Horticultural Society on January 22 on the value of soda in plant growth and the experiments made to determine the place it would fill.

The Kentucky Horticultural Society closed its convention at Lexington on January 24. Officers were elected as follows: President, M. F.

Johnson; secretary and treasurer, J. M. Garrett.

The Methow Valley Horticultural Society, Washington, has allied itself to the State society and elected the following officers: President, Dr. J. B. Conche; vice-presidents, A. C. Searle, J. L. Fulton; secretary, H. E. Marble; treasurer, C. J. Carad.

The Western New York Horticultural Society put itself on record at its recent annual meeting as opposed to a law requiring inspection and tagging of fruit. They consider that the buyers are the ones to inspect fruit on delivery.

OBITUARY.

Reinhardt Miller, formerly a landscape gardener of Louisville, Ky., died on January 22 in his eighty-fifth year.

Albert Crawford, a gardener in the Prospect Park greenhouses, Brooklyn, N. Y., died suddenly at his work on January 23.

John Irving, Sr., a native of Scotland and for nearly forty years a resident of Hughsonville, N. Y., died suddenly at his home of January 19.

INCORPORATED.

The Michigan Cut Flower Exchange, Detroit, Mich., has been incorporated, Philip and Fred Breitmeyer, Wm. Dilger and Robert Rahaley, incorporators. This firm started five years ago in a basement on Miami avenue with small capital and much opposition, but the untiring energy of Mr. Dilger has won friends in all directions, and the house now has an enviable reputation. The recognition of Mr. Rahaley's devotion to the firm's interests at this time is well deserved.

PEONIES

\$6.00 to \$10.00 per 100

EDWARD SWAYNE
WEST CHESTER PA.

100,000 Phoenix Roebelini Seed

This elegant, graceful and easy growing palm is one of the most useful for all kinds of decorative work both in small and large plants. Price, \$7.00 per 1000.

YOKOHAMA NURSERY CO.
31 Barclay St., New York.

NEW CROP ASPARAGUS PLUMOSUS NANUS

GREENHOUSE SAVED SEED

Now ready for Delivery

1000 Seeds \$ 7.00
5000 " 32.50

For other Seeds, write for our Wholesale
Price List and Retail Catalogue for 1907

R. & J. FARQUHAR & CO.
6 and 7 South Market St. BOSTON, MASS.

ARTHUR COWEE GLADIOLUS SPECIALIST

Meadowvale Farm

BERLIN, N. Y.

HAS UNDER CULTIVATION

OVER 100 ACRES

COMPRISING

The Best Mixtures, Collections
and Named Varieties in
Existence.

Write for 1906 Catalog

W. & D. SPECIALTIES for FORCING

Mignonette, "New York Market." Sweet
Peas, "True," Christmas Flowering, (pink
and white) Tomato, "The Don," "Stur-
ling Castle." Mushroom Spawn, "Eng-
lish" and "Pure Culture." Send for 1907
Catalogue.

Weeber & Don, Seed Merchants & Growers
114 Chambers St., New York

THOS. J. GREY & CO.

Fresh Flower, Farm and Garden
Seeds, New Mushroom Spawn.
Extra quality — French, Japan and
Dutch Bulbs. A full line of Agri-
cultural Machinery and Repairs

32 South Market St., Boston
SEND FOR CATALOGUE

RAWSON'S HIGH GRADE SEEDS

for the most critical
GARDENER, FARMER
or FLORIST

Catalogues mailed free

W. W. RAWSON & CO.
5 Union St., BOSTON, MASS.



Thorburn's Seeds

... OUR ...

Wholesale Catalogue

for florists and market gardeners is now
ready and will be sent free to all who ask
for it.

NEW CROP flower seeds are mostly all on hand
now and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Com-
pare our prices before ordering elsewhere.

J. M. THORBURN & CO.
33 Barclay St., through to 38 Park Place
NEW YORK

NEW STOCKS FLOWER SEEDS for FLOPISTS

Wholesale Catalogue Ready. Send for it today.
But first read our advertisement on page 105 in the Hor-
ticulture for January 26th, 1907. It is worth reading.

James Vick's Sons,
Seedsmen, Rochester, N. Y.

CAULIFLOWER SEED CABBAGE

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

ASPARAGUS Plumosus Nanus

Greenhouse Grown

FINE PLUMP SEED

\$5.00 per 1000

BRIDGEMAN'S SEED WAREHOUSE
RICKARDS BROS. Props.
37 East 19th St., NEW YORK CITY

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed
only to those who plant for profit.

For Prompt Shipment — Just Imported.
SPIRAEA and LILY of the VALLEY

LILIUM Auratum, Album,
Roseum, Rubrum.

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS

Comet Tomato

Those who force tomatoes should give
"Comet" a trial. This variety has been the
talk of gardeners around Boston the past
season. Those who have seen it growing de-
clare there's nothing to compare with it.

Seed, \$5.00 per oz. Trade packet \$1.00.
WILLIAM SIM, Cliftondale, Mass.

VICTORY HAS MADE GOOD

Place your orders early for rooted cuttings. Prices \$6 per 100, \$50.00 per 1000. DISCOUNT FOR CASH WITH ORDER

CUTTMAN & WEBER

The Wholesale Florist
of New York
43 W. 28 St.,

Grower
Lynbrook, L. I., N. Y.

ROSES

STRONG DORMANT PLANTS

Immediate Delivery. Prices Right.

BAY STATE NURSERIES,

LADY GAY

AND

HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

Catalogue mailed on request.

M. H. WALSH

ROSE SPECIALIST

WOODS HOLE, MASS.

GRAFTED ROSES

ON DICKSON'S IRISH MANETTI

We are now booking orders for March delivery.

KAISERIN, BRIDE, BRIDESMAID, KILLARNEY & RICHMOND; \$120 per thousand

Order Now.

ROBERT SCOTT & SON

SHARON HILL, DEL. CO., PA.

Beautiful New Pink Rose

AURORA

See announcement and full description in "Horticulture," December 8 issue.

PAUL NIEHOFF, - Leighton, Penn.

You'll find something worth reading on every page of this paper.

CHARLES H. TOTTY

Wholesale Florist

MADISON, N. J.

CHRYSANTHEMUM NOVELTIES A SPECIALTY
List Now Ready. Send for it.

CHRYSANTHEMUMS

C. Touset and Nonin, the money makers as we have found them. \$1.00 per doz.; \$7.00 per 100; \$60.00 per 1000. Pacific, Estell, Willowbrook, Halliday, Kalb and L. Harriet, 60c per doz.; \$4.00 per 100; Cash with order.

EGGELING FLORAL COMPANY

653 S. Grand Ave., St. Louis, Mo.

GOVERNOR HERRICK THE NEW VIOLET

Originated and introduced by

H. R. CARLTON, Willoughby, O.

We have the following stock in the finest condition to plant and now is the time to plant:

3 1/2 inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000
4 " 2.50 " 12 " 100 " 75 " 1000

It will pay you. Try it. Order at once.

American Beauty, Clothilde Soupert, Glorie de Dijon, Kaiserin Augusta Victoria, La France, Mad. Caroline Testout, Frau Karl Druschki, Crimson Rambler, Baby Rambler, Dorothy Perkins, etc., etc., SUITABLE FOR FORCING.

General Catalog and Price Lists ready.

North Abington, Mass.

ROOTED CUTTINGS OF Kaiserin, President Carnot and La Detroit

Strong, healthy, well-rooted cuttings, ready Dec. 1st; price \$2.50 per hundred or \$20.00 per thousand.

Try our strong, healthy, western grown wood from the best corn soil in Illinois.

BASSETT & WASHBURN HINSDALE, ILLS.

—ORCHIDS—

Some of the varieties we shall import this spring: Cattleyas, Trianae, Labiata, Mossiae, Mendellii, Speciosissima, Gigae, Schroederiae, Dendrobiums Nobilae, Wardianum, Phalaenopsis, Vandas Cerebra, Kimballiana; Oncidium Varicosum; Laelia Anceps, Autumnalis, Albida. Write for prices on above.

CARRILLO & BALDWIN, SECAUCUS, N. J.

ORCHIDS Imports, 1907

Save money and get our quotations on Cattleya labiata, Trianae, Percivaliana, Mossiae, Mendellii, Schroederiae.

JULIUS ROEHRS CO.
Largest Orchid growers and importers in U. S.
RUTHERFORD, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

Sander, St. Albans, England
and 235 Broadway, Room 1
NEW YORK CITY

ORCHIDS

Arrived in exceptionally fine condition the following ORCHIDS: LAELIA PURPURATA, CATTLEYA HARRISONIAE, C. INTERMEDIA, C. TRIANA, C. LEOPOLLII and many more.

Write for Prices

LAGER & HURRELL, SUMMIT, N. J.

ORCHIDS Direct from the Collectors

For Spring and Summer Delivery

We are giving quotations upon our entire list of South American, Philippine and East Indian Orchids. Choice varieties of Cattleyas, Odontoglossums, Platanus, Cypripedium, Phalaenopsis, Dendrobiums and Vandas. Among them the very rare Vanda Sanderiana for delivery June or July.

A. HELD, 11-19 William St., New York

Asparagus Robustus

The best of all Asparagus for a pot plant, strong three inch stock at

\$6.00 per 100, \$50.00 per 1000

ALBERT M. HERR, Lancaster, Pa.

GERANIUM

Wholesale catalogue and price list contains descriptions of seventy-five of the best standard sorts and 100 imported novelties, sent free to trade only.

R. VINCENT, Jr. & SON
WHITE MARSH, MD.

SPECIAL OFFER

We have still a few thousand Azaleas to offer in leading varieties, early and late sorts, from \$25.00 per 100 up to \$2.50 each.

Also a fine lot of Palms in all sizes, such as Kentias, Arecas, Latanias, Phoenix and Cocos. Pandanus Veitchii and utilis, Crotons, Dracaenas, Nerveuses, Aralias, Araucarias, Aspidistras, Ferns suitable for shades, in leading varieties. Cibotium Schiedei from \$1.00 to \$3.00 each.

Wholesale Price List on application.

A. LEUTHY & CO.,

Importers and Exporters, Growers and Dealers,
Perkins St. Nurseries, Roslindale,
BOSTON, MASS.

ARAUCARIA COMPACTA ROBUSTA, have only fine plants: 6 to 7 in. pots, 20 to 30 in. high, 4 to 5 years old, 3, 4, 5 tiers, \$1.50, \$1.75, \$2.00 each.

A. EXCELSA GLAUCA, 6 in., \$1.00, \$1.25; 7 in. specimens, finest in the world, \$2, \$2.50, \$3 each.

KENTIA FORSTERIANA, 6 in., 25 to 40 in. high, 75c, \$1, \$1.25 each; 7 in., made up, \$1.75, \$2 each.

SCOTTII FERNS, 8 in., as big as a washtub, \$1.25, \$1.50, worth \$3; 5 1/2 in., 40c; 6 in., 50c.

BOSTON FERNS, 6 in., 50c.

Cash with order. Goods travel at purchaser's risk.

CODFREY ASCHMANN,

Wholesale Grower and Importer of Pot Plants
1012 Ontario St., PHILADELPHIA, PA.

WHITMANI

2 1-4 inch, \$10 per 100

BOSTONS

2 1-4 inch, \$3.00 per 100

H. H. BARROWS & SON Whitman, Mass.

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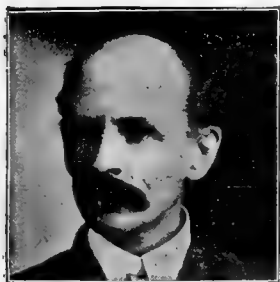
Nephrolepis Whitmanii, strong plants from 2 1/2 in. pots, \$10.00 per hundred.

Nephrolepis Elegantissima, 2 1/2 in. pots, \$5.00 per hundred.

P. R. QUINLAN, SYRACUSE, N. Y.

FINEST BULBS, NURSERY STOCK, PALMS, AZALEAS, BAYS, ROSES, BUXUS, EVERGREENS, and LILY OF THE VALLEY "EXCELLENTA" and "SUPERIOR."

JOHN SCHEEPERS & CO., New York City



CALDWELL THE WOODSMAN,
Introducer of the Wild Smilax.

Wild Smilax, \$2.50 per case.

THE ONLY PLACE WHERE YOU CAN ALWAYS GET IT.

Long Needle Pines, \$1.00 per dozen. Palm Crowns, \$2.50 per dozen. Extra nice long-stemmed Palm Leaves, \$2.50 per 100. Magnolia, \$2.50 per case, 16 cubic feet. Sheet Moss, \$2.00 per sack. Grey Moss, \$2.00 per sack. Galax, \$1.00 per 1000.

Speed a Specialty.

Write for Catalogue.

Caldwell the Woodsman Decorating Co., Inc., **EVERGREEN, ALA.**

ROSES

VIOLETS

GARDENIAS

CARNATIONS

VALLEY

AND ALL OTHER CHOICE FLOWERS

In our **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition to our regular wholesale **EVERGREENS** and **FLORISTS' SUPPLIES**

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. **Boston, Mass.**
and 9 Chapman Place,

See our Greens Advertisement on page 145.

L. D. Telephone, Main 2618.

NEWS NOTES.

Ludvig Mosbaek, who has disposed of his business in Onarga, Ill., will locate in Minnesota.

Charles Schnell has opened a new retail florist store at 998 Broadway, Buffalo, under the name of "The Rosery."

Two new houses, each 40x200 are contemplated to go up very soon, for lettuce, by David Johnson, a local market gardener, at Toledo, O.

The plant of The Perennial Gardens Co., Toledo, O., is now completed, and the electric circulator from the Holly-Castle Co. works to perfection.

Many florists from Chicago, Milwaukee, St. Louis, etc., paid Detroit and Mr. Clemens a visit on their way back from the Toronto Carnation show.

This time it is the women of upper New York who have been duped by a man selling them squash seeds purported to spring up into rubber plants. When arrested he gave the name of George Kromer.

The Board of Water Commissioners of Reading, Pa., have advertised for bids for planting and caring for flowers at its various reservoir grounds, to be received by February 5. \$1,725 was expended last year.

The work of excavating for a lake fifteen acres in extent at "Cranbrook," the estate of George G. Booth at Birmingham, Mich., is being carried steadily along all through the winter. A new bridge with arches of 50 feet span, dam and overflow have been built by the Kahn system of reinforced concrete. H. J. Corfield who is carrying out the work hopes to have everything completed and ready for planting by the time spring arrives. The building of a new mansion will be commenced the 1st of April. Extensive

planting will be carried out on this place in the spring.

Arthur Cowee, the gladiolus specialist of Berlin, N. Y., A. G. Babcox and the Humphrey Co. are planning an extensive exhibit of this flower at Euclid Beach, O., in August. The choicest varieties grown by Mr. Cowee will be shown and prizes will be offered for general exhibits grown from Meadow-vale bulbs. Rules governing the contest may be obtained from Arthur G. Babcox, who is to announce the exact dates of the contest later. This announcement will be made early enough to permit growers to obtain bulbs for spring planting. Features of the exhibit will be the offering of new and heretofore unintroducted varieties. Designs for lawn decoration exclusively of gladioluses also will be shown.

PERSONAL.

F. Tillman of Rhinebeck, N. Y., was in Detroit for several days.

B. Suzuki, who has been in Japan for several months, will not return this year, but in his stead Mr. Tokuda, one of the directors of the Yokohama Nursery Co., arrived Saturday, January 26.

W. H. Wyman of the Bay State Nurseries, North Abington, Mass., sailed for Europe on January 23 for the purpose of superintending the shipping and packing of specimen evergreens, rhododendrons and other stock which he is importing this season.

We are glad to announce the safe return of Robert Cameron from his trip to Jamaica and Cuba. Mr. Cameron arrived in Boston on Saturday, January 26, with a rich botanical collection as the result of his tour. He was not in Jamaica at the time of the earthquake, having left Kingston for Cuba the Friday preceding the catastrophe.

SALVIA "ZURICH."

One of the most important all-around novelties suitable for bedding is undoubtedly the new scarlet sage "Zurich" (*Salvia splendens compacta* "Zurich"). My attention was called to this plant several times during the last year in the European floricultural press reporting the various flower-shows held through Germany and it is remarkable how unanimous all reports were in praise of this magnificent plant.

It originated with the Park Department of Zurich in Switzerland about four years ago and has since been tried by a limited number of prominent park men and florists in Germany. Salvias are much more used throughout Europe as bedding plants and all the varieties such as Clara Bedman and Ball of Fire are far better known there, but this new salvia "Zurich" is said to beat them all. It is dwarfer than Ball of Fire, which is the dwarfest we have so far, never exceeding 18 inches in height and its flowers are produced in wonderful freedom, while plants are still small, making it practically an everblooming variety and I have no doubt that it will soon find its way to our side.

A great drawback with *Salvia splendens* and its other so-called early flowering varieties has always been its late time of blooming and a new variety which will unfold its wealth of flowers simultaneously with a geranium must be welcome to all florists who have groups to plant for effect. It is also said to last much longer when in flower, blooming long after the ordinary varieties are through. One of my correspondents calls it the "Gloire de Lorraine" of salvias which he says is a fitting description, though far fetched.

J. L. SCHILLER.

Entirely sold out of Paper Whites and Romans, so discontinue ad.
WM. ELLIOTT & SONS.

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for Samples.

E. A. BEAVEN, Evergreen, Ala.

PHILADELPHIA NOTES.

J. D. Eisele, of Dreers, sailed for Europe last week on a combined business and pleasure trip.

D. T. Connor has been in Baltimore the past week looking up business for the Lord and Burnham Co.

John Westcott has been in poor health for the past three months and has gone to Florida to recuperate.

W. C. Langbridge, the seed trade expert, was in town last week. If there is anything left in the way of orders or arguments after this visit it is outside of our knowledge.

There will be a poultry show at the Fencibles Armory on North Broad street next week. Several of the seedsmen, including the Johnson Co., will make a display of specialties.

A sad accident occurred at the home of Thomas B. Meehan, of Thomas Meehan & Sons, on the 29th ult. His son Thomas fell from a third-story window while at play, and we regret to record that the accident terminated fatally. The child was nine years old.

Thanks to HORTICULTURE, Wm. C. Smith has no surplus of Boston, Scottii or Barrowsi ferns to offer for the present. His ficus and asparagus are also fully booked up. Mr. Smith has been remarkably successful in propagating this class of stock and is satisfied with a reasonable profit. Look out for his next offer, which will include Ramblers, azaleas, lilies and other Easter stock.

FIRE RECORD.

P. J. Kertsen, Devils Lake, N. D., nursery and greenhouse totally destroyed; loss \$4,000, partially insured.

W. J. Clemson's greenhouses, Taunton, Mass., January 25; a brisk blaze promptly discovered and quickly extinguished. Loss about \$200.

The house occupied by C. H. Hune and assistants on the grounds of the Memphis Floral Co., Memphis, Tenn., was totally destroyed January 19.

Thomas Hill, Arlington, Mass., lost boiler house and portion of greenhouse on January 26. With great care the fires in the boilers were not extinguished, thereby saving a large crop of violets just ready for the market.

Send orders for flowers for delivery in

BOSTON and all NEW ENGLAND POINTS to

THOS. F. CALVIN
124 Tremont St., Boston

The Park Floral Co.

J. A. VALENTINE
Pres.

DENVER, COLORADO

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

JOHN BREITMEYER'S SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada

P. J. HAUSWIRTH

Temporarily Located
at

**13 Congress Street
CHICAGO**

AUDITORIUM ANNEX Tel. Harrison 585

SAMUEL MURRAY Florist

Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO
Bath 'Phones 2670 Main

FRED C. WEBER FLORIST

4326-28 OLIVE STREET ST. LOUIS, MO.
Established 1873
Long Distance Phone Bell Lindell 676

WILLIAM L. ROCK Flower Co.

KANSAS CITY, - MO.

will carefully execute orders for Kansas City and any town in Missouri or Kansas.

Have You Read the Advertisements
this Week?

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

571 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"



WASHINGTON,
D. C.

GUDE'S

Geo. H. Cooke FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

William J. Smyth FLORIST

Cor. Michigan Ave. and 31st St., CHICAGO

We ship to all points in Illinois and Iowa.

Phones: Douglas 744, Douglas 523, Douglas 740

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON
TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N. Y.

Theodore Miller FLORIST

Long Distance Phones: Bell, Forest 56; Kinloch, Delmar
4832 Delmar Boul. ST. LOUIS, MO.

Store open from 7 A. M. to 8 P. M.

THE WHOLESALE FLORISTS OF PHILADELPHIA
1608-1618 Ludlow St. Store closes 8 p.m.

226 Devonshire St., BOSTON, MASS.

51 WABASH AVE., CHICAGO

**Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers**

1526 Ranstead Steet, PHILADELPHIA
Store Closes 8 P. M.

1221 Filbert St., PHILADELPHIA

**Largest Wholesale House Between
New York and Chicago.**

Ready January 20th.

Beauties, Carnations, Violets

Superb Illustrated Supply Catalogue just out. Send for one.

A. L. RANDALL CO., 19-21 Randolph St.
CHICAGO.

From 40 to 60 Growers

We can care for your cutflower wants to advantage.

E. F. WINTERSON CO.

45-47-49 WABASH AVE., - - CHICAGO

ROBERT J. DYSART.

Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building

28 STATE ST., - BOSTON

Telephone, Main 58

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO January 28		ST. LOUIS		PHILA. January 28		BOSTON January 31	
ROSES								
Am. Beauty, Fan. & Sp.	40.00	to 50.00	.....	to	60.00	to 75.00	75.00	to 100.00
" Extra.....	25.00	to 35.00	.....	to	40.00	to 50.00	50.00	to 60.00
" No. 1.....	15.00	to 20.00	.....	to	25.00	to 30.00	20.00	to 25.00
" Lower grades.....	8.00	to 12.00	.....	to	8.00	to 15.00	8.00	to 12.00
Bride, 'Maid, Golden Gate, F. & S.	12.00	to 15.00	.....	to	15.00	to 20.00	12.00	to 15.00
" " " " " No. 1 & Ex.	8.00	to 12.00	.....	to	10.00	to 12.00	8.00	to 10.00
" " " " " low grades.....	4.00	to 6.00	.....	to	6.00	to 8.00	6.00	to 8.00
Liberty, Richmond, Fan. & Sp.	12.00	to 25.00	.....	to	20.00	to 25.00	20.00	to 35.00
" Lower grades.....	6.00	to 8.00	.....	to	10.00	to 15.00	6.00	to 12.00
Chatenay, Morgan, Fan. & Sp.	17.00	to 15.00	.....	to	15.00	to 18.00	12.00	to 15.00
" Lower grades.....	6.00	to 8.00	.....	to	6.00	to 8.00	6.00	to 8.00
Killarney, Wellesley, Fan. & Sp.	12.00	to 15.00	.....	to	20.00	to	12.00	to 15.00
" Lower grades.....	6.00	to 8.00	.....	to	10.00	to 15.00	6.00	to 8.00
CARNATIONS								
Fancy 4.00 to 6.00	4.00	to 6.00	.....	to	6.00	to	4.00	to 6.00
Ordinary..... 2.00 to 3.00	2.00	to 3.00	.....	to	3.00	to 4.00	2.00	to 3.00
MISCELLANEOUS								
Violets, Double..... .75 to 1.00	.75	to 1.00	.....	to	1.00	to .....	.50	to .75
" Single..... .50 to .75	.50	to .75	.....	to .....	.50	to .75	.50	to .75
Paper White Nar., Roman Hy..... 3.00 to 4.00	3.00	to 4.00	.....	to	3.00	to 4.00	2.00	to 2.50
Tulips, Dafodils..... 3.00 to 5.00	3.00	to 5.00	.....	to	4.00	to 5.00	3.00	to 5.00
Cattleyas..... 40.00 to 50.00	40.00	to 50.00	.....	to	50.00	to	35.00	to 50.00
Lilies, Callas..... 20.00 to 25.00	20.00	to 25.00	.....	to	15.00	to 18.00	10.00	to 12.00
Freesia..... 2.00 to 4.00	2.00	to 4.00	.....	to	3.00	to 5.00	2.00	to 3.00
Gardenias..... 30.00 to 50.00	30.00	to 50.00	.....	to	25.00	to 40.00	.....	to 50.00
Lily of the Valley..... 2.00 to 4.00	2.00	to 4.00	.....	to	3.00	to 4.00	2.00	to 4.00
Mignonette..... 4.00 to 8.00	4.00	to 8.00	.....	to	3.00	to 8.00	1.00	to 2.00
Adiantum... 1.00 to 1.50	1.00	to 1.50	.....	to	1.00	to 1.50	.50	to 1.00
Smilax..... 12.00 to 20.00	12.00	to 20.00	.....	to	15.00	to	12.00	to 16.00
Asparagus Plumosus, strings..... 35.00 to 50.00	35.00	to 50.00	to	50.00	to	to 50.00
" " & Sprenger bunches..... 35.00 to 50.00	35.00	to 50.00	to	50.00	to	20.00	to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON Market continues very strong on all lines. A slight increase in supplies shipped in to wholesale dealers is noted this week, but it is not sufficient to make any impression on values and everything of acceptable quality finds a ready customer waiting. Single trumpet narcissi and lily of the valley show evidences of accumulation. Violets are moving better than they did last week.

BUFFALO The thermometer registered a few degrees below zero the past week and cut the supply in stock very short. Roses were the scarce article. Very few were had and the prices were regular holiday rates. A good many orders were filled only partly and many not filled at all. Tulips and jonquils are coming in more plentiful and selling rapidly; narcissus, lily of the valley, lilies, etc., were in fine form and also sold well. Carnations of good quality and not too plentiful, and prices holding well. The price on American Beauty roses is so high that there is hardly a call; in many instances Richmond fills the bill. Sweet peas are in their glory and sell rapidly. McKinley Day was a good day for the Buffalo florists, the carnation demand being so great that every flower coming to the wholesalers was picked up at sight; a slight advance in prices prevailed Monday and Tuesday. Never in Buffalo has there been such a general wearing of carnations as on this occasion. In every street car, in all of the hotels, on street corners and in gathering places of men, generally, the favorite flower of the martyred President was worn with a tender recollection.

COLUMBUS Clear and sunny, although for us very cold, the temperature dodging around zero all the past week. Trade has greatly improved with the fine weather. McKinley Day was a busy one, indeed; more carnations were sold than ever before; in fact, with every year that passes, the people of Ohio, without regard to class, are a unit in wearing a carnation in honor of him whose memory it is an honor to honor. Prices show little change.

DETROIT Business is booming along at a lively gait with every florist on the run for goods to sell. Roses and carnations are very scarce and bring prices above the average for this time of year. Narcissi, daffodils, Roman hyacinths and tulips find ready sale at good prices.

LOUISVILLE Business conditions were somewhat improved the past week. Carnations are in very good supply, of good quality and sell well. Roses have a fair demand, and the supply and quality are about satisfactory. Violets, lilies of the valley, bulbous stock, etc., are sufficient to meet the demands.

NEW YORK A slight improvement in supply of tea roses is observed this week. Beauties are still coming slowly and the price holds according to grade and quality. Selected lots of specials have realized a dollar per flower. A large percentage of blossoms are imperfect. Carnations are more plentiful and prices have eased off. There is a considerable quantity of daffodils, lily of the valley, tulips and Paper Whites in the market and they are bringing good prices. Harrisii lilies are scarce. Violets selling well. There seems to be about enough smilax and asparagus to meet daily demands without surplus.

PHILADELPHIA Although stocks generally improved as to color and quality the past week, business could not be said to be very active. The indications, however, are for a better tone from now on, the improved tendency being already apparent. High quality Beauties were scarce and in good demand. The short grades were generally rather knotty and also poor in color. Brides and Bridesmaids have greatly improved as to color, but the cut is still below the average. The bright spot in the market at present is Richmond, which is extra good. Carnations are a little more plentiful. The demand for lily of the valley is better and the quality has improved. Tulips and single daffodils are now a strong feature, and as yet show no sign of being overdone. Sweet peas are specially fine at present, and the same may be said of cypripediums and cat-

tleyas. Double violets are scarce, singles draggy.

TWIN CITIES Stock is not first class; prices are steady, and trade fair. Twenty to twenty-five degrees below zero has prevailed much of the past week, with a little more sunshine.

Business in Montreal, P. Q., is reported as rather quiet at present.

Business is reported as very good in Toledo, O., but owing to the very bad weather, flowers are very scarce and quality is not very extra.

BUSINESS CHANGES.

The firm of Kent & Marsh of Newburyport, Mass., has dissolved and the business will hereafter be conducted by Otis Kent, Mr. Horace Marsh retiring.

Wm. Ferguson has moved from Haverhill, Mass., to Plaistow, N. H., where he will have better facilities for growing the fine gladioli with which his name is associated.

M. J. Leach of Pawtucket, R. I., gave up active participation in the business of M. J. Leach & Sons on January 1, and will carry on the market gardening business while the sons, Ed. and Herbert, will take charge of the greenhouses.

NEWS NOTES.

W. G. Kroeber, New Bedford, Mass., has filed a voluntary petition in bankruptcy. Liabilities, \$4,274, largely secured; assets, \$500.

We are sorry to report that Colin Campbell, one of the oldest florists of Montreal, Can., has failed, with liabilities amounting to \$10,000. The creditors have taken possession of the store on St. Catherine street and the greenhouses at Rockfield.

A protest by L. J. Kreshover against assessment of a 50 per cent. ad valorem duty on preserved cypas palm leaves and wreaths at the port of New York has been overruled on a review by the Board of U. S. General Appraisers. The decision is that these goods come under paragraph 425 of the present tariff act, which includes artificial or ornamental leaves, flowers, and stems of whatever material composed, not specially provided for and which are subject to 50 per cent. ad valorem duty.

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	Last Half of Week ending Jan. 26 1907	First Half of Week beginning Jan. 28 1907		Last Half of Week ending Jan. 26 1907	First Half of Week beginning Jan. 28 1907
Roses			Carnations, Ordinary	2.00 to 4.00	3.00 to 5.00
Am. Beauty, fan and sp.	50.00 to 75.00	50.00 to 75.00	Violets, double	.50 to .75	.50 to 1.00
" extra	25.00 to 30.00	25.00 to 35.00	" single	.50 to 1.00	.35 to .75
" No. 1	15.00 to 20.00	15.00 to 20.00	Paper White Nar., Roman Hy.	1.50 to 2.00	..... to 2.00
Lower grades	3.00 to 8.00	2.00 to 10.00	Tulips, Daffodils	3.00 to 6.00	3.00 to 6.00
Bride, 'Maid, Golden Gate, fan & sp	12.00 to 20.00	15.00 to 20.00	Cattleyas	30.00 to 50.00	25.00 to 50.00
" " " No. 1 & Ex.	8.00 to 12.00	8.00 to 12.00	Lilies, Callas	12.00 to 16.00	12.00 to 20.00
" " " low grades	4.00 to 6.00	5.00 to 6.00	Freesia	1.00 to 3.00	..... to 2.00
Liberty, Richmond, fancy & special	20.00 to 35.00	20.00 to 50.00	Gardenias	25.00 to 50.00	20.00 to 35.00
" " " lower grades	4.00 to 12.00	3.00 to 12.00	Lily of the Valley	1.50 to 3.00	2.00 to 3.00
Chatenay, Morgan, fancy and spec.	12.00 to 20.00	15.00 to 20.00	Nigronette	4.00 to 12.00	4.00 to 12.00
" " " lower grades	4.00 to 8.00	3.00 to 10.00	Adiantum	.50 to .75	.50 to .75
Killarney, Wellesley, fan, and spec.	12.00 to 20.00	15.00 to 20.00	Smilax	10.00 to 15.00	12.00 to 15.00
" " " lower grades	4.00 to 8.00	3.00 to 10.00	Asparagus Plumosus, strings	25.00 to 35.00	25.00 to 35.00
Carnations, Fancy	6.00 to 10.00	5.00 to 10.00	" & Sprenger, bunches	15.00 to 25.00	15.00 to 35.00

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Bronze and Green Galax Leaves \$0.50 per 1000
Fancy and Dagger Ferns \$1.00 per 1000
Green Leucothoe Sprays \$2.50 per 1000
Bronze \$5.00 per 1000
Rhododendron Sprays \$3.00 per 1000
Kalmia or Mountain Laurel \$3.00 per 1000

Also Rhododendron Plants which will grow,
10 to 15 inches, 10c. each; 20 to 25 inches, 15c.;
30 to 40 inches, 25c.; 50 to 60 inches, 40c.
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ROSES								
Am. Beauty, Fan, and Sp.....	50.00	to 60.00	to	50.00	to 70.00	50.00	to 70.00
" Extra	30.00	to 40.00	35.00	to 50.00	35.00	to 45.00	20.00	to 40.00
" No. 1.....	15.00	to 20.00	20.00	to 30.00	18.00	to 25.00	8.00	to 12.00
" Lower grades.....	8.00	to 10.00	10.00	to 15.00	.....	to	4.00	to 5.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	8.00	to 12.00	12.00	to 15.00	15.00	to 20.00
" " " No. 1 & Ex.	4.00	to 5.00	6.00	to 8.00	10.00	to 12.00	10.00	to 12.00
" " " low grades	3.00	to 4.00	5.00	to 6.00	4.00	to 10.00	4.00	to 6.00
Liberty, Richmond, Fan, & Sp. ....	.....	to 8.00	8.00	to 12.00	10.00	to 20.00	15.00	to 20.00
" " " Lower grades.....	4.00	to 6.00	6.00	to 8.00	5.00	to 10.00	6.00	to 8.00
Chatenay, Morgan, Fan, & Sp. ....	.....	to 8.00	8.00	to 12.00	10.00	to 15.00	12.00	to 15.00
" " " Lower grades	4.00	to 6.00	6.00	to 8.00	5.00	to 15.00	4.00	to 6.00
Killarney, Wellesley, Fan, & Sp. ....	.....	to	8.00	to 12.00	.....	to	15.00	to 18.00
" " " Lower grades .....	.....	to	6.00	to 8.00	.....	to	6.00	to 8.00
CARNATIONS								
Fancy and Novelties.....	3.00	to 4.00	3.00	to 5.00	4.00	to 5.00	3.00	to 5.00
Ordinary.....	1.00	to 2.00	1.50	to 3.00	2.00	to 3.00	1.00	to 2.00
MISCELLANEOUS								
Violets, Double.....	.50	to 1.00	1.50	to 2.00	.75	to 1.25	.75	to 1.25
Single .....	.50	to 2.00	1.00	to 1.50	.50	to 1.00	.25	to .50
Paper White Nar., Roman Hy.....	2.00	to 3.00	3.00	to 4.00	2.00	to 3.00	2.00	to 3.00
Tulips, Daffodils	3.00	to 5.00	4.00	to 6.00	3.00	to 4.00	3.00	to 4.00
Cattleyas .....	.....	to	5.00	to .....	.....	to	5.00	to 75.00
Lilies, Callas	12.50	to 15.00	20.00	to 25.00	5.00	to 20.00	20.00	to
Freesia .....	.....	to	4.00	to	2.00	to 3.00	2.00	to 4.00
Gardenias.....	.....	to	35.00	to .....	.....	to .....	.....	to
Lily of the Valley.....	3.00	to 4.00	4.00	to	3.00	to 4.00	2.00	to 4.00
Mignonette .....	.....	to	10.00	to 15.00	3.00	to 5.00	2.00	to 5.00
Adiantum .....	.....	to 1.00	1.00	to 1.50	.50	to 1.00	.75	to 1.50
Smilax	12.50	to 15.00	15.50	to 20.00	12.00	to 15.00	10.00	to 15.00
Asparagus Plumosus, strings.....	40.00	to 50.00	50.00	to	40.00	to 50.00	30.00	to 50.00
" " " & Sprenger, bunches	25.00	to	30.00	to 40.00	25.00	to 30.00	25.00	to 50.00

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Buyer's Directory and Ready Reference Guide

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ACCOUNTANT.

R. J. Dysart, 28 State St., Boston.
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ADIANTUMS.

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston.
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ARTIFICIAL CARNATION CALYX

Maxfield & Dimond, Warren, R. I.
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ASPARAGUS.

Albert M. Herr, Lancaster, Pa.
Asparagus Robustus.
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Asparagus plumosus nanus and Sprengeri, 2 1/2-in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

Asparagus Crawshawii, a new, beautiful asparagus. Seedlings, \$3.00 100; \$25.00 1000; transplanted seedlings, \$5.00 100; \$40.00 1000. Jas. Crawshaw, 403 Plainfield, Providence, R. I.

BAUR CARNATION CLIP AND PLIERS.

Baur Floral Co., 18 W. 10th St., Erie, Pa.
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BOUVARDIA.

Bouvardia—1000 stock plants of double pink Bouvardia at \$10 per 100. Address Bouvardia, care HORTICULTURE, 11 Hamilton Place, Boston.

BULBS AND TUBERS.

Joseph Breck & Sons, 47-54 N. Market St., Boston.

Lilies, Lily of the Valley.
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H. F. Michell Co., Philadelphia.
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Johnson Seed Co., 217 Market St., Phila.
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John Schepers & Co., 26 Old Slip, N. Y.
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Bulbs. Cannas, Dahlias, Gladioli, Oxalis, Madra and Cinnamon vines, Iris, Peonies. Finest stock. C. Betscher, Canal Dover, Ohio.

CANNAS.

The Conard & Jones Co., West Grove, Pa.
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Cannas, very fine list. Send list of needs. C. Betscher, Canal Dover, Ohio.

50,000 Cannas, fine, \$10 to \$15 per 1000. Best sorts. Write Benj. Connell, West Grove, Pa.

Cannas, enormous stock, 30 Standard Sorts. Bargain prices until Catalogue issued. Send for list. Nathan Smith & Son, Adrian, Mich.

Cannas. Good bulbs, 2 or 3 eyes, Austria, Robusta, Augusta Ferrier, King Edward, Victor Hugo, Morning Star, Paul Marquant, Pennsylvania, Robert Christie, Admiral Courbet, Mlle. Berat, Flamingo, Partenope, \$2.00 per 100. Started roots from sand after March 1, \$2.50 per 100. Est. of David Fisher, Woburn, Mass.

CARNATIONS.

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Carnation Mabelle.
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Carnations Aristocrat, White Perfection and Red Riding Hood.
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Geo. A. Kuhl, Pekin, Ill.

John Barr, South Natick, Mass.

R. E. Moir, Brockton, Mass.
White Maid.

Carnations. All rooted cuttings. These prices for January delivery. Per 1000: Enchantress\$50 B. Market\$15 Beautiful25 Lawson15 Cardinal25 Harlowarden ... 15 100 at same rate. Cash with order.

Smith & Gannett, Geneva, N. Y.

We can furnish several thousand unrooted cuttings of Fair Maid and Queen Louise for immediate delivery at \$6.00 and \$5.00 per thousand. Cohanze Carnation Greenhouses, New London, Conn.

Healthy rooted carnation cuttings. Queen Louise, Phil. Gouze, Norway, Boston Market, \$9.00 per 1000. Melody, \$5.00 per 100. Red Lawson, \$15.00 per 100. Lawson, Harlowarden, Mrs. Nelson, \$12.50 per 1000. White Cloud unrooted, \$4.00 per 1000. Wm. Ehmann, Corfu, N. Y.

CHRYSANTHEMUMS.

Egging Floral Co., 1653 S. Grand Ave., St. Louis, Mo.

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Chrysanthemums. Jeanne Nonin, C. Touset, Mrs. Brice, Roi d'Italie, Fred Lemon, Merza, Cobbold, M. Ware, Oct. Sunshine, Beauty of Sussex, \$2.00 per 100. Glory Pacific, Kalb, Monrovia, Polly Rose, Alliance, Mrs. Robinson, J. Shrimpton, Bride, Bonnafton, Halliday, Duckham, Cullingford, Mrs. Chamberlain, Arline, Ermenilda, W. Bonnafton, Princess, M. Friend, Nellie Pickett, Lincoln, W. Jones, G. Wedding, Ben Wells, Yellow Eaton, Enguehard, Mrs. Weeks, Appleton, G. Trophy, Florence Teal, A. Balfour, Intensity, Mme. Perrin, \$1.50 per 100; \$12.50 per 1000. Wm. Ehmann, Corfu, N. Y.

CLEMATIS.

Clematis Pauciflora. Strong field-grown plants, \$15.00 per 100; strongest, \$30 per 100. Quotations on larger quantities. Est. David Fisher, Woburn, Mass.

CONIFERS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
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Dracaena terminalis from bench, one \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

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FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

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Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.
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J. N. Pritchard, Elk Park, N. C.
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Bronze and green galax. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

Galax leaves, leucothoe sprays, dagger and fancy ferns, green and bronze. Write F. W. Richards & Co., Banner Elk, N. C.

GERANIUMS.

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GLASS.

Boston Plate & Window Glass Co., Boston.
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Peerless GLASS REPAIR CLAMP; you need them—100 for \$1.00. A. Klokner, Wauwatosa, Wis.

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GREENHOUSE BUILDING MATERIAL.

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Michigan Cut Flower Co., 38 and 40 Miami Ave., Detroit, Mich., Wm. Dilger, Mgr.
Fancy Ferns.
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Fadeless Sheet Moss.
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N. Lecakes & Co., 53 W. 28th St., N. Y.
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Hardy cut ferns. L. B. Brague, Hinsdale, Mass.

Fancy ferns, green sheet moss; leucothoe sprays, etc. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

HARDY PERENNIALS.

M. H. Walsh, Woods Hole, Mass.
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For Sale—The most complete stock of Hardy Perennials, Dahlias and other Bulbs, for Spring planting at reduced prices. Get list. Pailsades Nurseries, Sparkill, N. Y.

HEATING APPARATUS.

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Young & Nugent, 42 W. 28 St., New York
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled
Long distance telephone
connections.

Theodore Miller, 4832 Delmar Bvd.,
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Ky. Tobacco Product Co., Louisville, Ky.
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Siggers & Siggers, Washington, D. C.
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PEONIES.

Edward Swayne, West Chester, Pa.
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Peonies, 1200 sorts. Greatest list any-
where. C. Betscher, Canal Dover, Ohio.
Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfield, West Point,
Neb.

PHOENIX ROEBELINI SEED.

Yokohama Nursery Co., 31 Barclay St.,
New York.
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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp.
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PLANT BED CLOTH.

Mineralized Rubber Co., 18 Cliff St., N. Y.
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PRIMROSES.

Geo. A. Kuhl, Pekin, Ill.

PRIVET.

250,000 California privet, all sizes. Send
for trade list. Valdesian Nurseries, Bostic,
N. C.

PRUNING SHEARS.

Rhodes Mfg. Co., Grand Rapids, Mich.
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Robert Scott & Son, Sharon Hill,
Del. Co., Pa.
Grafted Roses.
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The Conard & Jones Co., West Grove, Pa.
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The beautiful new pink rose, MISS
KATE MOULTON is the queen of all
pink roses. It's a winner and you should
grow it. Price \$30.00 100; 500 \$125.00;
1000 \$200.00; 5000 and upwards \$175 per
1000. Minneapolis Floral Co., Minneapolis,
Minn.

Baby Rambler roses, fine dormant stock,
one year, \$12 per 100, 2-1-4 in. pot plants,
extra well rooted, \$4 per 100, \$30 per M.
Orders booked for delivery now or any
time up to the late spring. Samples free.
Brown Brothers Company, Rochester, N. Y.

SEEDS.

T. J. Grey & Co., 32 So. Market St.
Boston, Mass.
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J. M. Thorburn & Co.,
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Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Rickards Bros., 37 East 19th St. New York.
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R. & J. Farquhar & Co., 6-7 So. Market St.,
Boston.
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Watkins & Simpson, 12 Tavistock St., Lon-
don, Eng.
Sweet Pea Novelties.

Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and
Tree Seeds.

Aster Seeds, home-grown, strictly pure.
Prices right. Nathan Smith & Son, Adrian,
Mich.

SHEEP MANURE.

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Wizard Brand.
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SHEET MOSS.

E. A. Beaven, Evergreen, Ala.
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SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

SPIRAEA.

Wm. Elliott & Sons, 201 Fulton St., New
York.

Jos. Breck & Sons, 47-54 No. Market St.,
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Hitchings & Co., 1170 Broadway, N. Y.
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Weathered Co., 46 and 48 Marion St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.
The Chicago Lifter.

VINCAS.

10,000 vincas 2-1-2 in. fine, \$2.50 per 100;
\$20.00 per 1000. R. Cuttings same, \$1.00
per 100; \$7.00 per 1000. Cash, please.
Benj. Connell, West Grove, Pa.

VIOLETS.

H. K. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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Caldwell the Woodsman Decorating Co.,
Evergreen, Ala.
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WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

Wire work, all kinds. C. E. Critchell,
36 E. 3rd St., Cincinnati, O.

William E. Hielscher's Wire Works, 38-40
Broadway, Detroit, Mich.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
Cincinnati, O.

WHOLESALE FLORISTS.

Boston.

N. F. McCarthy & Co., 84 Hawley St.,
Boston.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Boston.
H. M. Robinson & Co., 15 Province St., Boston.
For page see List of Advertisers.

George A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

Welch Bros., 226 Devonshire St., Boston.
For page see List of Advertisers.

Buffalo.

Wm. F. Kasting, 383-87 Ellicott St., Buffalo, N. Y.
For page see List of Advertisers.

Chicago.

Chas. W. McKellar, 51 Wabash Ave., Chicago.
For page see List of Advertisers.

Peter Reinberg, 51 Wabash Ave., Chicago.
For page see List of Advertisers.

A. L. Randall Co., 19-21 Randolph St., Chicago.
For page see List of Advertisers.

E. F. Winterson Co., 45-49 Wabash Ave., Chicago.
For page see List of Advertisers.

Poehlmann Bros. Co., 35 Randolph St., Chicago.
For page see List of Advertisers.

Detroit.

Michigan Cut Flower Exchange, 38 & 40 Broadway. Wm. Dilger, Mgr.
For page see List of Advertisers.

New York.

J. K. Allen, 106 W. 28th St., New York.
For page see List of Advertisers.

Wm. Stuart Allen Co., 53 W. 28th St., New York.
For page see List of Advertisers.

C. W. Eberman, 53 W. 30th St., New York.
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J. S. Fenrich, 110 W. 28th St., New York.
For page see List of Advertisers.

Ford Bros., 48 West 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 West 28th St.
For page see List of Advertisers.

E. C. Horan, 55 West 28th St., New York.
For page see List of Advertisers.

A. H. Langjahr, 55 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
For page see List of Advertisers.

Chas. Millang, 50 West 29th St., New York.
For page see List of Advertisers.

John I. Raynor, 49 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 39 W. 28th St., New York.
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Traendly & Schenck, 44 W. 28th St., New York.
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A. L. Young & Co., 54 W. 28th St., N. Y.
For page see List of Advertisers.

John Young, 51 W. 28th St., New York.
For page see List of Advertisers.

Philadelphia.

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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Leo Nissen Co., 1217 Arch St., Philadelphia, Pa.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-18 Ludlow St., Philadelphia, Pa.
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Edward Reid, 1526 Ranstead St., Philadelphia, Pa.
For page see List of Advertisers.

Pittsburg.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
For page see List of Advertisers.

Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
For page see List of Advertisers.

New Offers in This Issue.**CARNATION WINNERS AT TORONTO.**

Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

EASTER AZALEAS AND FORCING PLANTS.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

HARDY JAPANESE LILIES: SALVIA CLARA BEDMAN SEED.

H. F. Michell Co., Philadelphia.
For page see List of Advertisers.

LAWN MOWER.

Clipper Lawn Mower Co., Dixon, Ill.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS.

Johnson Seed Co., Philadelphia.
For page see List of Advertisers.

ROSES.

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

STERILIZED SHEEP MANURE.

Wm. Elliott & Sons, 201 Fulton St., New York.
For page see List of Advertisers.

CATALOGUES RECEIVED.

Linden Dahlia Gardens, W. P. Hayden, prop., Rockland, Mass. Descriptive list of dahlias, 1907.

California Rose Company, Pomona, Cal. Book of Field-Grown, Own-Root Roses. A comprehensive list, well illustrated.

Chicago Carnation Co., Joliet, Ill. Price list for 1907. Lists of the leading novelties in carnations; also chrysanthemums and roses.

Good & Reece Co., Champion City Greenhouses, Springfield, O. Trade list for January, February, March, 1907, contains a very full selection of roses.

C. Young & Sons Co., St. Louis, Mo. Spring Catalogue. Handsome colored embossed covers, the subjects being nasturtiums, sweet peas and gladioli. Colored insert showing roses Franz Deegan, Killarney and Etoile de France.

"Rhododendrons" is the title of a most seductive pamphlet issued by Eastern Nurseries, M. M. Dawson, Mgr., Jamaica Plain, Mass. It treats of our native broad-leaved evergreens in a manner that makes one hungry to possess them,—and that's the way to make a catalogue.

Dingee & Conard Company, West Grove, Pa. New Guide to Rose Culture for 1907. Killarney and Anny Muller form the subjects of the colored cover, and very handsome are they. There are also three colored plates of roses and one of dahlias. A very extensive list of roses, all classes.

John Lewis Childs, Floral Park, N. Y. 1907 list of flowers, vegetables and fruits. The colored cover subjects are cyclamens on the front and vegetables on the back. A colored insert shows fancy caladiums and rex begonias very effectively and true to nature. The pages are replete with illustration and description of everything rare and sensational in garden products.

Conard & Jones Company, West Grove, Pa. New Floral Guide for 1907. Rose Magnafrano is nicely reproduced

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FLORISTS' WAGONS FOR SALE

Three florists' open wagons, three florists' top wagons and three sets of harnesses. Can be seen at 1 West 28 St., New York.

EDWARD HICCINS.

FOR SALE—Greenhouse Pipe

4-in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

Seedsman

We have an opening for order and counter hands who are experienced.

William Elliott & Sons
201 Fulton St., New York

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—By Florist and Gardener where services of a first-class grower are required. Married, 2 children. Address S. I., care HORTICULTURE, 9th and Market Sts., Philadelphia, Pa.

SITUATION WANTED as gardener by Scotchman; lifetime experience, all branches, fruits, flowers and vegetables; married; abstainer; 33 years age. Address Scot, care HORTICULTURE, 11 Hamilton Place, Boston, Mass.

WANTED—Two second men on private estate. Wages \$50 to \$55. Address R. D., care of HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—Intelligent young gardener with some botanical and fern knowledge. Good salary. Address with qualifications H. J., care HORTICULTURE, 11 Hamilton Place, Boston, Mass.

WANTED—A Head Gardener who is in need of a first-class handy man; good at pruning trees, edging drives, cutting with scythe and working around gentleman's place. Scotch; married, no family. Address Marshall Wishart, care W. D. R., Elberon, N. J.

WANTED AT ONCE—A sober and energetic young man with knowledge of pruning, planting, etc., to assist in general landscape work. Apply in person or by mail with reference to A. Van Leeuwen, Jr., 3 Wexford Rd., Worcester, Mass.

WILL PURCHASE a private collection of Orchids from parties desiring to dispose of same. Address A. K. Balevre, 24 Clinton Street, Newark, N. J.

on the front cover and on the back cover we find roses Chas. Wagner, White Maman Cochet and Souv de Jeanne Cabaud. This is a very comprehensive list of plants, especially strong on roses and cannas; of the cannas William Saunders, Ottawa and New York are decidedly sensational.

It is always safe to expect something unique along about New Years from W. Atlee Burpee & Co., Philadelphia. This year it is a set of twelve picture post-cards, showing scenes at Fordhook Farms. They are not only attractive but suggestive of the vastness of the Burpee enterprise. No doubt Mr. Burpee will willingly forward a set to any of HORTICULTURE'S readers on application.

Tobacco Paper

IS THE

STRONGEST,
BEST PACKED,
EASIEST APPLIED.

“NICO-FUME”

LIQUID

OVER 40% NICOTINE

By far the

CHEAPEST.

24 sheets.....\$ 0.75

144 sheets..... 3.50

288 sheets..... 6.50

1728 sheets..... 35.10

Furnishes the

Most Nicotine for the Money!

... Manufactured by ...

THE KENTUCKY TOBACCO PRODUCT CO.,

Louisville, Ky.

JUST NOTE PRICES!

Pint.....\$ 1.50

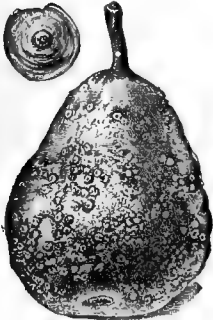
½ Gallon..... 5.50

Gallon..... 10.50

5 Gallons..... 47.25

“HORICUM”

TRADE MARK



San Jose Scale on a Pear.

Kills San Jose,

Send for Pamphlet on “Bugs and Blights” to B. Hammond, Fishkill-on-Hudson, N. Y.

HAMMOND’S SLUG SHOT WORKS.

“HORICUM” A Scale Killer and Fungicide

A preparation for the destruction of the “SAN JOSE SCALE”; carefully prepared and put up in packages for general use.

“HORICUM” can be obtained from many of the Seedsmen in the United States. A description of the article is aptly told in the pamphlet. It is put up in quarts and gallons to 50 gallon barrels. It is the Lime, Sulphur, and Salt combination, concentrated.

ABOUT “HORICUM”

Glenside, Pa., March 31, 1906.

Hammond’s Slug Shot Works, Fishkill-on-Hudson, N. Y.

Gentlemen: Seeing “Horicum” mentioned in Monthly Bulletin of Div. of Zoology, Penna., I would thank you to inform me where I can get a supply, say about a gallon, for trial. The San Jose Scale is very bad around this section and could no doubt push sale of the solution, especially as it is spoken of so highly in the above mentioned Bulletin.

Yours respectfully,

H. J. HINDS.

P. S. Glenside is twelve miles from Philadelphia.

PULVERIZED
SHEEP MANURE


STARVED ROSE BUSHES
NEVER BLOOM

and the successful florist wants more than the ordinary bloom and stunted stem—he wants all there is in the soil—the bush—the stem—the bloom.

Don't starve the roots.

Put away your bushes this fall with plenty of fall and spring food for the roots.

The richest root food, stem and bloom producer you can use is



Wizard Brand Pulverized Sheep Manure

It goes further than any other fertilizer, costs less, no waste—no refuse or seeds. Special prices to florists and greenhouse operators.

Write for Booklet.

The

PULVERIZED MANURE CO.

31 Exchange Ave., CHICAGO

W.W. RAWSON & CO. Agents for Boston

Have You Read the Advertisements this Week?

ANCHOR GREENHOUSE HOSE


Stands the racket. Protect your plants with our

PLANT BED CLOTH

Mineralized Rubber Co.

18 Cliff Street, New York

The Standard Steam Trap



Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

E. HIPPARD,

Youngstown, Ohio

PATENTS

Trademarks and Copyrights

Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building

Washington, D. C.

GREENHOUSES BUILDING AND PROJECTED.

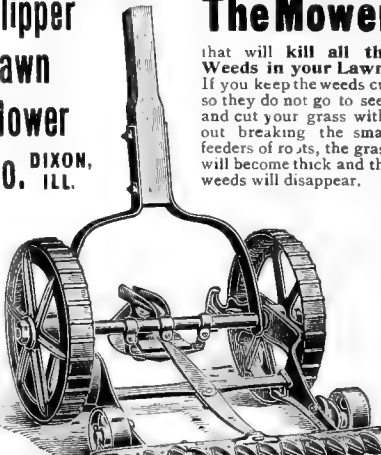
New.

Winsted, Ct.—Moses G. Cook, one house.

Detroit, Mich.—Chas. H. Plumb, one house.

Dunnsville, Ont.—L. H. Weaver, one house, 14x90; one house, 20x100.

Clipper Lawn Mower Co. DIXON, ILL.



The Mower

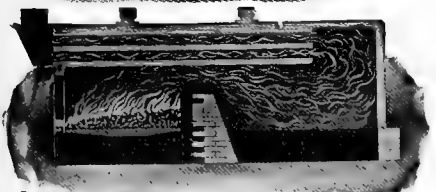
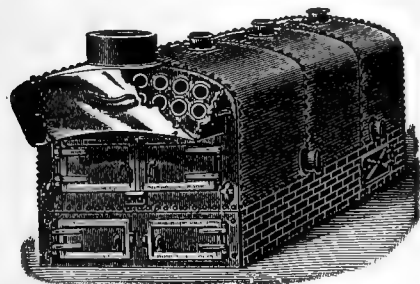
that will kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.

The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-inch Mower \$5; No. 2—15-inch Mower \$6; No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8. Send draft money-order or registered letter. In writing advertisers, mention Horticulture

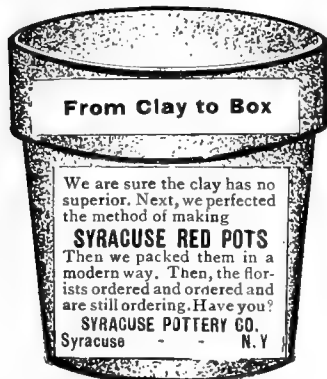
Have You Read the Advertisements this Week?

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,
35 Erie St., CHICAGO.

Boilers made of Steel Boiler Plate; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

**STANDARD FLOWER POTS**

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 3 1/4 " " "	5.25	60 8 " " "	3.00
1500 3 1/2 " " "	6.00	HAND MADE	
1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
800 3 1/4 " " "	5.80	48 10 " " "	4.80
500 4 " " "	4.50	24 11 " " "	3.60
320 5 " " "	4.51	24 12 " " "	4.80
144 6 " " "	3.16	12 14 " " "	4.80
		6 16 " " "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower . . POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money

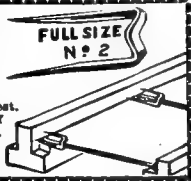
W. H. ERNEST,
28th and M Streets, WASHINGTON, D. C.

Holds Glass Firmly
See the Point at

PEERLESS

Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DEER,
714 Chestnut St., Phila., Pa.



CYPRESS SASH BARS
82 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

WEATHERED COMPANY

BOX 789, NEW YORK
GREENHOUSE BUILDING AND HEATING

Send for Catalogue

**GREENHOUSE CONSTRUCTION LUMBER**

John C. Moninger Co.
117 E. Blackhawk St., CHICAGO

RHODES DOUBLE OUT PRUNING SHEAR

**RHODES MFG. CO.**

Dept. 4-

Cuts from both sides of limb and does not bruise the bark. We pay Express charges on all orders. Write for circular and prices.

GRAND RAPIDS, MICH.

ALL HEART
SUN DRIED CYPRESS

GREENHOUSE MATERIAL
IS THE BEST
WE HAVE LOTS OF IT
SEND FOR SKETCHES
ESTIMATES AND FREE
CATALOGUE
VENTILATING APPARATUS
HOT-BED SASH
FITTINGS &c.

FOLEY MFG. Co.
471 W 22ND ST.
CHICAGO

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.

FOLEY MANUFACTURING CO.,
471 W. 22d Street, Chicago

BOSTON PLATE & WINDOW GLASS CO.**GREENHOUSE GLASS**

German and American

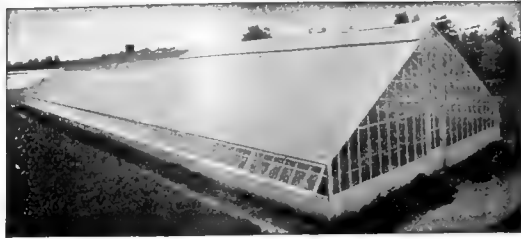
261 to 287 A St., BOSTON 20-22 Canal St.

NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.**GURNEY HEATERS**

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE. 74 FRANKLIN ST. BOSTON

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL.



Costs and Competition

We can help you both ways—first, with a house, an equipment that is not only up-to-date, but up to stay up; a layout that meets in the handiest, most economical way, just your needs. You must always keep in mind that we thoroughly understand the right laying out of your house to give the greatest returns from least time and labor expended by your help. We are not only greenhouse builders, but economy engineers—we help you meet competition—and you'll have pleasant dealing. Write us.

HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.

Manufacturers of Heating and Ventilating Apparatus.

1170 Broadway,

NEW YORK.



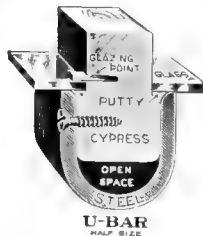
TO GET THE FULL VALUE AND attractiveness of your palms, it is necessary to look at them from above the floor level. Here is a delightful solution in this raised lobby entrance, from which every plant can be seen at its very best. It takes away that usual store-room effect and gives a beautiful tropical impression. Show houses can be treated in the same way—and every place of any size should have a show house.

If you want this sort of thing we can do it for you, or always welcome the opportunity to carry out for you any of your ideas or suggestions.

LORD & BURNHAM CO.

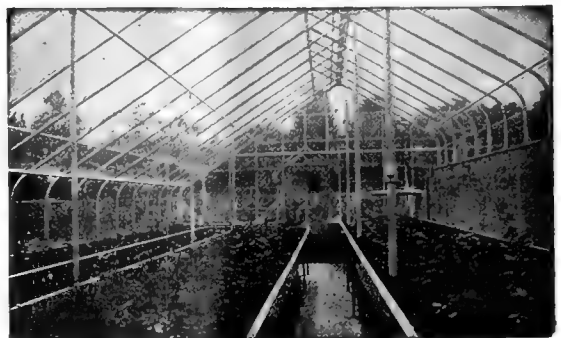
Greenhouse Designers and Manufacturers

1133 BROADWAY, cor. 26th Street, N. Y.
BOSTON Branch: 819 Tremont Building



STILL more of Robert Williamson's letter: "I may state that the U-Bar house has been greatly admired by everyone interested in horticulture, who has seen it. I also wish to

thank you for the painstaking way in which all the work was done, every small detail being carefully and promptly attended to." Mr. Williamson is Superintendent for Mrs. A. A. Anderson, Greenwich, Conn. Send for catalog. **Pierson U-Bar Company, Designers and Builders U-Bar Greenhouses,** Metropolitan Bldg., Fourth Ave. and 23rd Street, New York.



Interior view of "U" Bar greenhouse designed and erected for Mrs. A. A. Anderson, Greenwich, Ct.

HORTICULTURE

Vol. V.

FEBRUARY 9, 1907

No. 6



COLORADO BLUE SPRUCE
Dana Island, Glen Cove, N. Y.

Photo. by John F. Johnston

Devoted to the
**FLORIST, PLANTSMAN,
LANDSCAPE GARDENER**
and
Kindred Interests

Published
EVERY SATURDAY
*At 11 Hamilton Place,
BOSTON, MASS.*
Subscription, \$1.00

... OUR ... CARNATION NOVELTIES — For 1907 —

Winsor, White Enchantress and Helen M. Gould

ONE way to judge carnations is to see them on the exhibition tables. A better and more convincing way is to see them growing; therefore we cordially invite all carnation growers to visit us and judge for themselves regarding the superiority of the above-named sorts.

Our carnation houses are at **Scarborough-on-Hudson**, (not Tarrytown). Friends who desire to visit us can take the N. Y. C. & H. R. R. R. from New York. Trains leave there every half hour. Scarborough is the first station north of Tarrytown. Our grounds adjoin the station, and the greenhouses are about five minutes' walk from the station.

We are growing **25,000 plants of Winsor** for cut flowers, alone, for the new York market this season, which shows the faith we have in it. This will also enable visitors to see it growing in quantity, and besides that, will give us enough plants to get a great abundance of fine, healthy cuttings without over-propagating. We have already booked a large quantity among the large growers, and anticipate for this variety the largest sale of any new carnation that has ever been distributed, as large growers who have seen it are enthusiastic in regard to its value. Those who have seen it have immediately placed large orders for it, so we recommend those who have not ordered to place order without delay, so as to insure early delivery.

For full description of these three valuable novelties, see our wholesale price list.

Wholesale Prices Rooted Cuttings Spring, 1907

WINSOR.—Soft silvery pink. The best color, best keeper, best shipper, best seller—best every way. \$12.00 per 100; \$100.00 per 1000.

WHITE ENCHANTRESS.—Has the large size, long stem, productive habit of Enchantress, but is pure white. \$12.00 per 100; \$100.00 per 1000.

HELEN M. GOULD—A beautiful sport of Enchantress. Ground color lovely shade of silvery pink, with very fine pencilings of carmine, making an exceedingly exquisite combination. While on close observation this variety is variegated, the general effect is one beautiful tone of dark pink. Exceedingly valuable, because it combines the earliness, freedom, long stem and large size of Enchantress, giving another color possessing all the other desirable qualities of Enchantress. \$12 per 100; \$100 per 1000.

BEACON.—Orange-scarlet. A vigorous, healthy grower, of ideal habit. A profuse bloomer, with long stems. \$12.00 per 100; \$100.00 per 1000.

ARISTOCRAT.—Cerise-pink. Will be planted largely in place of Lawson. \$12.00 per 100; \$100.00 per 1000.

MELODY.—Daybreak sport of Lawson, about the same color as Enchantress, but much brighter, and does not fade like Enchantress. Also a much better keeper and shipper. Those who grow the Lawson varieties exclusively will find this very valuable and desirable, because it gives an improved Enchantress color, which is so popular, and at the same

time can be grown in the same house with the other Lawsons. An extra fine thing in every way and in great demand. A great addition to the Lawson class. \$10.00 per 100; \$75.00 per 1000.

ROSE PINK ENCHANTRESS.—A sport of Enchantress. Color, dark rose pink. \$7.00 per 100; \$60.00 per 1000.

WHITE PERFECTION.—A novelty of 1906, and a variety for which there is a great demand this season. A third larger than Lady Bountiful and a more perfect flower. \$6.00 per 100; \$50.00 per 1000.

VICTORY.—Scarlet. This is giving great satisfaction, being a free blooming, profitable scarlet. \$6.00 per 100; \$50.00 per 1000.

RED LAWSON.—A fine red. Our stock of this is superior to many stocks of Red Lawson that we have seen. \$4.00 per 100; \$30.00 per 1000.

VARIEGATED LAWSON.—The most productive of the variegated sorts. A favorite. Outblossoms Mrs. M. A. Patten. \$4.00 per 100; \$30.00 per 1000.

WHITE LAWSON.—An excellent white. \$4.00 per 100; \$30.00 per 1000.

LADY BOUNTIFUL.—Pure white. \$4.00 per 100; \$30.00 per 1000.

ENCHANTRESS.—\$3.00 per 100; \$25.00 per 1000.

MRS. M. A. PATTEN.—\$3.00 per 100; \$25.00 per 1000.

MRS. THOS. W. LAWSON.—\$3.00 per 100; \$20.00 per 1000.

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

BEACON CARNATION

(ORANGE - SCARLET)

The demand for
Beacon the second
year will
be phenomenal

Originated at Ellis, Mass.

HAS AGAIN
DEMONSTRATED ITS COM-
MERCIAL VALUE
THIS SEASON 1906-7

Grow Beacon:—
You'll discard some
other scarlets
when you do

It has been grown and tested by the following:—

The Cottage Gardens Company, Queens, N. Y.	-	5,000 plants
Mr. E. A. Stroud, Stafford, Pa.	-	1,000 "
The Park Floral Company, Denver, Col.,	-	50 "

They were all delighted with it.

At Ellis, Mass., we have - - - - - **20,000 plants**

Prices

Per 100, \$12.00,	50 at 100 rate	Per 2500, \$95.00 per 1000
" 1000 100.00,	250 " 1000 "	" 5000, 90.00 " "
Per 10,000, \$80.00 per 1000		

WE ARE PREPARED TO MAKE PROMPT DELIVERY

THE COTTAGE GARDENS CO.
Queens, N. Y.

PETER FISHER
Ellis, Mass.

Send for Descriptive Circular

Mention this Paper

Winners at Toronto

White Perfection, all white, the best in the show. We have the largest stock of this variety in the country. Strong healthy cuttings ready now. \$6 per 100, \$50 per 1000.

Aristocrat, beautiful cerise—winner everywhere. March 1st delivery. \$12 per 100, \$100 per 1000

Red Riding Hood, our grand scarlet. \$12 per 100, \$100 per 1000

Daybreak Lawson or Melody. \$6 per 100, \$50 per 1000

White Lawson, \$5 per 100, \$25 per 1000

Winners of 22 first prizes this season. Our stock is clean and healthy.

Enchantress	\$2.50 per 100, \$20 per 1000
Lady Bountiful ,.....	\$3 per 100, \$25 per 1000
Cardinal ,.....	\$4 per 100, \$30 per 1000
Lieut. Perry ,.....	\$4 per 100, \$30 per 1000
Red Lawson ,.....	\$4 per 100, \$30 per 1000
Victory ,.....	\$6 per 100, \$50 per 1000
Variegated Lawson ,.....	\$3 per 100, \$25 per 1000
Harlowarden, crimson ,...	\$2 per 100, \$15 per 1000

Chicago Carnation Co., **A. T. PYFER,** **Joliet, Ill.**
Manager

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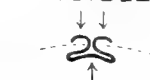
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ARTHUR T. BODDINGTON

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will find some good offers there also.

Dosoris

Dosoris, Glen Cove, L. I., N. Y.—the home of the late C. A. Dana, once editor and proprietor of the New York Sun—is a name connected with my earliest impressions of American horticulture. I used to read Mr. Falconer's articles in the English gardening papers and my intentions were to visit the place on the first opportunity. It may seem strange that I should have put off doing so until after a residence in the United States of nearly a quarter of a century. I had, however, heard that, since the elder Dana's death, it had "run down," and this I offer as an excuse poor though it be, for not visiting the place before. This autumn I planned a trip to New York to study horticulture in the neighborhood of the country's metropolis, and "took in Dosoris."

Interest here has been given a new lease. Mr. Paul Dana, the veteran publisher's son, has made it his summer home. Though it has been divided, and is now the home of two families, for horticultural purposes it is one.

Primarily I went to study coniferous trees and shrubs. It is plain that the small strip of water—the Sound—separating Long Island from the mainland, makes a great difference in its climate. All insular evergreens—where the test of hardiness and general well-being depends upon congenial conditions as to moisture and freedom from extremes—do well here. Conditions of soil are of secondary importance, consequently we find a number, which fail, or do poorly with us, that succeed here. All the things we can grow at Wellesley do well, and more too.



Photo by John F. Johnston

PICEA MORINDA

Dana Island—Height 40 feet.

The place has an additional interest to me, because the late H. H. Hunnewell, the elder Dana, and Prof. Sargent were very great friends, and in days gone by—20 or 30 years ago—whenever any new thing in the coniferous line was introduced, each gentleman's place was sure to get some specimens for trial, with the result that we have duplicated here many of our Wellesley trees and shrubs. Parsons' nursery was in full swing at that time. Mr. Trumpey was in charge. He and Jackson Dawson are in a class by themselves. I fear we shall never meet their like again. As craftsmen, each is peerless in his time. The result of Trumpey's work was sure to find a home at these places. From Parsons came the Japanese yew *Taxus cuspidata*, and its variety, *brevifolia*, now becomes famous twenty-five years after introduction. It is one of the mysteries of the age that these grand hardy yews are so little known. They were probably sent by Hogg to Parsons, and the first plants introduced were grafted upon *T. baccata*. We have many large plants of both the type and its variety, but ours are exceeded in size by those at Dosoris. For what reason, we cannot tell, but the plants at Dosoris, of the type, carry a leader, and assume an oval, tree-like form. None of ours have done this. All are spreading and flat-topped. The dwarf form produces seeds freely, and from this source we shall some day have a large supply and some variation in form. Seedlings are already coming up in the neighborhood of the larger plants, and very interesting

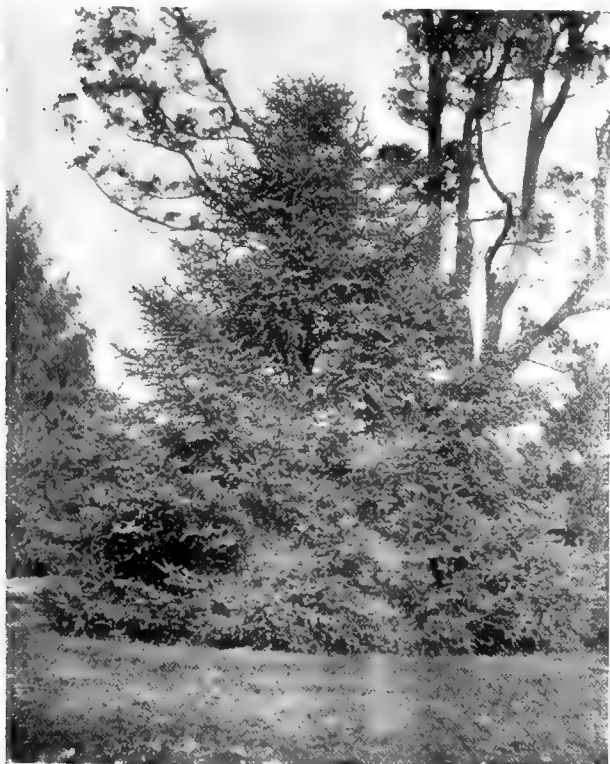


Photo by John F. Johnston

ABIES PINSAPO

Dana Island—Height 25 feet.

they are. There is an unnamed variety of *baccata*, a very handsome plant, and very hardy, probably the same as one at Wellesley. Also, *T. baccata stricta*, probably the most distinct and hardiest of all the *baccata* forms, excepting, perhaps, the golden-leaved. Also *T. baccata Dorastoni*, a very handsome drooping variety, and *T. repanda*, of similar habit. *Dosoris*, I should say, is about the northern limit of the English yew *T. baccata*; they will live at Wellesley, and some thrive fairly well, but are occasionally winter-killed.

Wellingtonia gigantea is entirely out of consideration at Wellesley. Even here it lives in a dubious way. I was surprised, however, to learn that it does well with Ellwanger & Barry at Rochester, New York. *Cryptomeria japonica* makes a beautiful columnar specimen; *C. j.* var. *Lobbi*, neatly pyramidal. The last named is said to be hardier. Of *Pinus excelsa*, there are several large specimens; some also of *Pinus ayacahuite*. That the last named is true, is doubted by one very good authority. Nevertheless, it is different from the typical *P. excelsa*. *Pinus Lambertiana* also, one of our doubtful ones which has existed precariously at Wellesley for 30 years, is at *Dosoris* a fine tree. There is a very handsome specimen of *Picea Smithiana* (*morinda*)—probably the finest on this continent, and the most beautiful of all—with long needles, and drooping branches. At Wellesley it lives—that is all. *Abies Pinsapo* makes a handsome specimen.

Cedrus atlanticus was a pleasant surprise to us. We had seen very fine trees in England last summer. It has been tried at Wellesley, but will not live. There are trees at *Dosoris* 50 feet high. The Atlas cedar is a distinctly beautiful evergreen, in green and blue varieties, of open and somewhat irregular habit varying the monotony of pyramidal evergreen like firs and spruces.

Other evergreens—hardy with us—are *Abies Veitchii*, *A. brachyphylla*, *A. concolor*, *A. cilicica*, *A. pectinata*, *A. sachalinense*, *Picea polita*, *P. orientalis*, *Pinus flexilis*, *Pinus pungens*, and some commoner types.

Boxes (*Buxus*) do exceedingly well. We had several large specimens at Wellesley, until a few years ago. Two severe winters finished all but a few in sheltered places. The summer house is completely covered with *Wistaria sinensis*. Nothing could be more successful for arbor work. It has done its work well—too well—threatening, in the near future, to pull the house down. *Schizophragma hydrangeoides* has climbed to the top of a tree. It is less common than the climbing hydrangea—*Hydrangea petiolaris*. *Corylopsis pauciflora* and *C. spicata* are two very pretty early-flowering shrubs. *Halesia tetraptera* and *H. diptera* are both large and beautiful specimens; they are especially valuable on account of the varying times of blooming—one follows the other nicely. *Magnolias* are well represented: *M. hypoleuca*—white flowers and scarlet filaments, very beautiful; *M. Watsoni*, another beautiful species, with sweet scented flowers; *M. macrophylla*, large both in leaf and flower; *M. Halleana*, a shrubby kind with starry white flowers in early spring; the beautiful native, *M. glauca*; *M. Kobus*, and some other commoner kinds.

The able and efficient superintendent, Mr. Johnston, has made some very fine pictures of the magnolias at *Dosoris* which it is hoped will be published, together with cultural notes in the near future.

J. D. Hatfield

The Pear Blight

The days of the Bartlett pear seem numbered. California, the State to hold out the longest in the successful and profitable culture of this delicious fruit, is fast losing ground before the ravages of the dreaded pear blight.

A number of the middle California valleys famous for their pears are completely wiped out. The effort to save the trees that are left is being concentrated in the northern counties, where the disease has not gone the limit. Even here the conditions are bad. The past year was a very favorable one for the blight. Late heavy, frequent rains caused the blossoming to extend over a long period and induced a soft green, watery growth with the production of many suckers, just the thing for blight infection.

Failure to frequently remove the suckers gave the blight a chance to get into the trunks and roots of the trees and there are a number of orchards badly off in this respect. As surgery is the only method of getting rid of the blight, the cutting away of a large portion of the root and the cleaning of the trunk entails an enormous amount of work and the expenditure of considerable money. So profitable has the crop been, however, that many orchardists are doing just this thing in order to prolong the life of their orchards if they cannot eventually save them. If badly gone the tree must be grubbed up; otherwise there is a fighting chance.

The United States government has seven men in the field and the California Agricultural Experiment Station has five or six out, all of whom are working on this proposition giving all their time to the farmers, showing them how to recognize the blight and training them in the proper methods of eradication. It means an immense amount of work and the final outcome is an open question. The Californian is not used to insect and fungus ravages—although he thinks he is—and he loses heart very easily.

To check and hold one's own against the blight requires very careful, conscientious work and fully as important, co-operation on the part of all the growers. This is hard to obtain for laziness, ignorance and carelessness must be fought against here as elsewhere. The worst danger spots are the little backyard orchards, all of which it is impossible to find. These are bad centers from which reinfection will start. Unless everyone takes hold the Bartlett is doomed and that is why I write "the days of the Bartlett pear seem numbered." General co-operation is difficult and practically impossible to obtain.

A ray of hope filters through in the belief that the vitality of the bacillus is lessening—certain observations in the Vaca, Napa and Suisun valleys leading to this conclusion. If it is true that the blight is dying out it is the man that can tide over his orchard until the crisis is passed who will win out. He will find a market and a good one.

R. S. Adams.

More About the Proposed Boiler Inspection Law

• Wishing to get more complete information on the subject on which I wrote last week I addressed a letter to Mr. C. E. Roberts of the Hartford Steam Boiler Insurance Co., asking whether, if the proposed law should go into effect, it would be permissible for market gardeners, farmers or florists to install "lap seam" steam boilers or to retain such where same are already in use; also whether we should be obliged to employ night firemen or whether this could be avoided by taking out an insurance policy; whether the use of a boiler to generate steam for pumping water, the valves to the houses being closed, or the use of a spare heating boiler for this purpose would constitute same power boilers, etc. I received the following reply:

Mr. R. T. McGorum, Natick, Mass.

Dear Sir:—Your valued favor of January 30th received. I wish that I were able to reply directly to your inquiry. There are at least four, if not more, amendments to the State law regarding the inspection of boilers. Which of those will pass, of course, we are unable to say. When the laws have been passed they will have to be examined and interpreted, but, in general, will say that we do not anticipate a change that would seriously affect boilers such as you use. We should expect, however, even if greenhouse boilers were exempted, if they were used for pumping they would come under the head of power boilers; and, in that case, you would require a licensed fireman, perhaps under a special license, under a regular full-licensed engineer. In these matters, however, we could not anticipate what position the State officials would take or what their interpretation of the law would be. We would say, however, that we do not look forward to anything that would seriously hamper or change matters, so far as your boilers are concerned, but as yet we are as much in the dark as to the outcome as you are. We trust that the steam users will be well protected under the law, whether for heating or power purposes, by the passage of a conservative measure.

Yours respectfully,

C. E. ROBERTS, Manager.

It seems strange that in the bill under consideration it is proposed to take us out of the exempted class, but admit to that class boilers under the periodically guaranteed inspection of companies which have complied, with the laws of the commonwealth, and, further, to substitute a minimum of "three-horse power" for "eight-horse power." Does the State feel obliged to make laws to keep up the business of the insurance companies? If not, then why these changes?

We are told in the above letter that if we run a pump we must have a fireman with a special license, under a regular full-licensed engineer; that's rich, isn't it! Most of us have started from a small beginning and some of us are in the small class yet. I look after my boilers myself, except at night, as I always have done and, when we get weather, run a little pump for manure water, and many florists do the same. We can take a pump to pieces and put it together again if occasion requires, but, could we get an engineer's license of the class mentioned? I think the florists that could do it could be easily counted. For the privilege of using a

pump once a week are we to employ two extra men, for perhaps two hours' work weekly?

Pressure for greenhouse heating rarely exceeds 10 lbs., the safety valve set to blow off at perhaps 2 pounds higher. Is there any danger of explosion? Florists are usually situated in isolated places, where the risk, even under high pressure, would be very small. "Motor road vehicles" are left on the exempted list. In these steam cars a pressure from 200 to 400 pounds of steam is carried and a pump running all the time. These are allowed anywhere on the streets amongst crowds of people. I wonder why they were left on the exempted list and we taken.

It will be noted from the above letter that there are four or more inspection bills in the process of hatching. We are having a hard enough time this winter trying to get flowers under bad weather conditions without being saddled with extra burdens to be added to our already increased expenses, and decreased incomes!



Gillenia trifoliata, Moench

This plant belongs to the natural order Rosaceae in which several families since ages ago have been cultivated. Genera and species within this order are still in use in our parks and in our gardens, not alone for their economical value but also for their embellishment. It is to one of those I wish to call the readers' attention, our native *Gillenia* (India Physic or Bowman's Root). If it was as well known by garden cultivators as it has been given names by botanists we would see it more commonly cultivated. Known as *Spiraea trifoliata*, L., it was first cultivated in England in 1758 by Mr. Miller. *Ulmaria major trifolia*, *Ulmaria virginiana trifolia*, and *Porteranthus trifoliatus* are also names with which it has been honored. It well deserves with right the honor to be more widely cultivated. With its pinkish-white flowers in a loose paniced corymb and its fine incised foliage, it will fill its place in the border with gracefulness and elegance, and as a cutflower, few of the hardy perennials will excel it. The writer of these lines saw in Horticultural Hall, Boston, last summer a vase of this plant, and it was the most pleasing and attractive in that of genera well represented, staged collection. Its culture is not difficult and grown to perfection "it certainly is a most delectable plant," as was the opinion of an early writer. It thrives best in a moist peaty soil and half-shaded situation. Propagation in spring by parting the roots or by seeds sown as soon as ripe.



HORTICULTURE

VOL. V

FEBRUARY 9, 1907

NO. 6

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292
 WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 05.

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;

six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass. under the Act of Congress of March 3, 1879.

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The Jamestown Exposition
 Our news columns convey the gratifying information that the promise of greater horticultural efficiency in the laying out and adornment of the Jamestown Exposition grounds than was the case at any one of the previous fairs, is being fulfilled. The men

selected for this work and the early beginning which was made gave good assurance at the outset that former mistakes in this direction were not to be repeated and that good judgment and excellent taste might be looked for in the management of the horticultural department and the general landscape work.

A suggestion to the Carnation Society

It is a question whether the American Carnation Society might not with wisdom extend the time of their annual convention to three days instead of limiting it to two as has been the custom. The first day could then be given over entirely to the exhibition feature, thus giving the exhibitors time to stage their flowers properly; and visitors abundant time to inspect and confer. The opening session could be held on the morning of the second day and the secretary relieved of the necessity of trying to do half a dozen important things all at once. The flowers, keeping as well as they have in the two last exhibitions, would hold in presentable shape until the third day. There are many excellent reasons for the extension and we can think of none against it. We hope the matter will be given consideration by the executive officers of the society at the proper time.

Some results of the flower scarcity

The scarcity of flowers of the varieties most largely in demand during the mid-winter season, which has prevailed ever since December, has produced some results worth noting. Prices have held steadily high—on first thought, a not unhealthy symptom, but it has been demonstrated to the satisfaction of many observant dealers that purchasing has been materially curtailed in consequence. Bulbous stock such as tulips, daffodils and freesias has found appreciative buyers this season to a much greater extent than would have been the case had good roses and carnations been available at the prices of previous years. Growers of flowering plants have also enjoyed a demand beyond what was anticipated and this is attributed to the stringency above noted. One branch of the industry which has, for similar reasons, attained much prominence, has been the forcing of spring-flowering shrubs and this is one of the most gratifying features of the situation, stimulating, as it does, greater public appreciation for this material with its almost unlimited possibilities in artistic decorative effect. Regardless of what may have brought it about it will be generally agreed that this is progress in a promising direction, for any addition to the standard variety of flowers for general use should at all times be welcome.

Legislation against seed adulteration

Bill 25,031, introduced in the House of Representatives on January 28, by Mr. Hepburn of Iowa, prohibits the shipment or receipt, interstate or foreign, of all seed containing dead seed or other material reducing its value for seeding purposes. It pro-

vides that all packages of seed shall be branded with the names and proportions of everything contained therein, also the name of the state or country in which it was raised and prescribes a severe penalty for false labelling. An attempt is made to define the distinction between "mixed" and "adulterated" seeds and seed dealers found with adulterated stocks in their possession are protected against punishment if they can show a warranty as to the purity of the seed, signed by the wholesaler from whom same was purchased. The Secretary of Agriculture is given full jurisdiction and all examinations and tests shall be under the supervision of the Bureau of Plant Industry. On request of the Secretary of Agriculture the Secretary of the Treasury shall supply samples of seeds as imported and may refuse entry to any found not up to standard. All seed condemned under the provisions of the act shall be destroyed or sold and the proceeds turned into the U. S. treasury; in other words, confiscated. The seed trade will do well to watch closely the progress of this bill. Legislation of this sort is popular at the present time and this effort is undoubtedly well-meant but, unless well scrutinized and carefully drawn, under the counsel of those thoroughly acquainted with the business which it seeks to regulate may reach far beyond its ostensible purpose and inflict injury never contemplated by its advocates. Fairness demands that its purpose be explicit and its provisions plainly adapted thereto—something which, as it appears to us on a first perusal, is not apparent in the bill in its present form. It has often been asserted that the farmers and others are influenced by cheapness rather than quality in purchasing and are unwilling to pay the price for first-grade agricultural seeds. We doubt very much if this is true. It should be remembered that the greater part of the grass and clover seeds reaches the consumer, not through the medium of the seedsman but of the country grocer who does not understand the seed business and cannot realize to the extent that the intelligent farmer can, the importance of having clean seed even at a little higher figure than the price of an impure mixture. As to the farmer who is deficient in this respect his perceptions might be effectually brightened up by the addition of a clause providing for seed inspection in the field as well as in the bins as pertinently suggested by Mr. O'Mara at the Senate committee hearing on the free seed appropriation last year.

Let Horticulture Work for You

If you have anything to sell to florists, gardeners, park superintendents, seedsmen, let this paper sell it for you. It reaches thousands of good buyers once a week and the cost is only a trifle. Tell your story in HORTICULTURE's advertising columns, for it will get into good company and the best people in the profession will surely see it and read it.

A Plea for Fences

Mr. Editor:—This is rather a bold heading after the two able letters from Mr. Cameron and Mr. Finlayson which have recently appeared in your increasingly valuable periodical. I by no means wish to detract from the gardener's responsibilities and duties connected therewith; of course, these to the head gardener extend over the whole horticultural establishment, and if he sees any improvement which can be effected to the landscape which the landscape gardener has overlooked, he will do well to point it out to his employer and with his approval make the change. A clever plantsman, florist or pomologist is not a full-fledged gardener, it is true, but their articles if they can show practice to bear out their theories, are always useful and acceptable reading. There are two sides to every question but each is capable of certain modifications.

I quite agree with both your correspondents that fences are lurking places for insect embryos and fungus spores, but I do not see that this is of all the consequence that is attributed to it, provided the fences are of the right sorts and are kept clipped neatly twice a year and the borders they occupy perfectly free from weeds. To the total exclusion of fences under all circumstances I take objection. As to uniformity I must admit that in city suburbs it is pleasing, but I have not quite gotten over the idea that every man's house is his castle; not that it is any longer necessary to defend it with moat and fortress, but a boundary line of some well-grown and well-kept fence of a dwarf growing shrub which will stand the winter's cold gives an idea of individual ownership and makes a man feel his independence, and says tacitly to a disagreeable neighbor (and we cannot all be agreeable yet) "So far shalt thou come and no farther." For an outside fence nothing can beat the Japanese privet. If kept bushy by semi-annual clipping and grown about four feet high and two and a half feet through, it will be a good defence against any stray cattle and impervious to smaller animals; besides which it makes the estate look as if some one owned it as well as the town.

Uniformity is good in the immediate suburbs of cities, but when we get away into the hamlet and village, diversity of buildings, gardens, and fences, always supposing all are well taken care of, constitute their chief charm.

Let us not repudiate the use of fences by wholesale, and in our efforts to do away with objectionable ones strip our lawns and gardens of every semblance of fence until our villas and cottages are dotted about a common, with here and there a shrub or flower bed to rescue the monotony of the scene. I suppose our go-ahead friends in the profession will think me antiquated but if they made a tour of the counties of Old England where the sweetbrier exhales its fragrance to the breeze, the hawthorn and holly shine with their berries of scarlet and the wild honeysuckle and clematis add their beauties to the delights I may be excused for my old-fashioned ideas.

Geo. Moore

NEWS OF THE CLUBS AND SOCIETIES

FLORIST CLUB OF PHILADELPHIA.

The meeting of this club on Tuesday, 5th inst., was large and enthusiastic. Carnations were the special topic and feature. John E. Haines gave a very interesting paper on his experiences with this flower and was followed by Edward A. Stroud and others, who told of their recent experiences at the Toronto meeting. W. A. Manda made some interesting remarks and our western friend, J. A. Valentine, added his quota to the symposium. Among the exhibits were Enchantress, Beacon and a fine white from Strafford Flower Farms; five vases of seedlings from Winona Carnation Gardens, among which appeared a fragrant Enchantress and a fringed ditto, the latter showing evidence of being a very good keeper; a pink seedling from W. A. Manda, a light pink and a Lawson pink from John Kuhn, the former being a very pleasing color and likely to be heard from; a vase of pink and variegated Imperial from John E. Haines showing their grand stems and large flowers in perfection; also a vase of very good Victory from the same; a variegated seedling from Harry P. Potter, and last but not least a splendid vase of Mabelle from H. Weber & Son, Oakland, the latter showing up grandly, proving easily the feature of the evening. Routine matters were dispatched in a very satisfactory manner, most of the committees reporting good work achieved as well under way. About fifteen new members were proposed, only one of which belonged to the associate class. If Mr. Pennock's tenure in the presidency keeps the pace like his first quarter it will be Philadelphia's banner year. Sam Batchelor exhibited a vase of lovely light pink Bougainvillea and a grand vase of Enchantress.

TARRYTOWN HORTICULTURAL SOCIETY.

The regular meeting of the society was held on January 29, president Howard Nichols in the chair. A lot of fine cyclamens were on exhibition. Joseph Bradley, gardener for Mr. Sidenburgh, of Hastings, won the prize with three excellent yearling plants. Two of the essays on vegetables by Geo. Standen and C. Newton, that were in competition for the Peter Henderson prize at the fall show were read, and a lively discussion followed.

Resolutions of sympathy and regret were read and adopted on the death of Mr. John Egan, one of the charter members of the society. Mr. Egan was one of the pioneers, and one of the most able gardeners in this section. For many years he had charge of the Gurney estate at Irvington, but latterly conducted a florist business in Tarrytown. He was one of the best grape growers in his day and his name was well associated with the production of many things first-class in floriculture.

Also, resolutions of condolence to Claude Wilson, Dobb's Ferry, on the death of his son, were adopted.

Howard Nichols offers a prize for the best twelve roses other than American Beauty for the February meeting.

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting and annual smoker of the New Jersey Floricultural Society was held on February 1. The evening was a social one for the members and their friends, and was interspersed with music and short addresses by Robert Barry, J. Austin Shaw, Neil Campbell, and William F. Ross. Carnation Winsor was shown by F. R. Pierson Co., and was received with special favor. Its color under the electric light is particularly pleasing from a decorative standpoint and its form and substance improve as the season advances, this being its third appearance before the society. Three vases of choice orchids were shown by Julius Roehrs Co., and seedling carnations by Henry Hornacker, a grower of East Orange. From the neighboring estates came the almost perfectly grown Euphorbia Jacquinæflora of Peter Duff; a specimen Cattleya Schroderae from Sydney & Austin Colgate, grown by William Reid, and hyacinths in good form and color from Charles Hathaway, grown by Max Schneider; their extraordinary size was laid by the grower to his treatment of planting as soon as received in August and burying; bringing them out gradually from cellar to forcing heat, which last was accomplished in about six weeks in a moderately cool house.

JOS. B. DAVIS.

SOCIETY OF SOUTHERN FLORISTS.

The program for the meeting of this society to be held at New Orleans, on February 14, 15, 16, is as follows:

Address of welcome by Mayor Behrman; reply by Prof. Stubbs; papers on "Chrysanthemums Growing in the South," F. P. Davis, Mobile, Ala.; "Profitable Orchids for the Florist," J. A. Newsham; "Packing, Shipping and Express Rates," C. W. Eichling; "Rose Growing Under Glass," R. Lockerbie; "What the South Can Grow for Northern Markets," W. R. Wichers, Gretna, La.; "Injurious Insects and Remedies," Prof. Newell; "Experience With Carnations in Alabama," W. T. Patterson, Jr., of Montgomery; "Elementary Horticulture in the Public Schools," E. Baker; "The Needs of the Retail Trade in the South," C. Eble. A banquet to the visiting florists will be the closing feature.

DUTCHESS COUNTY HORTICULTURAL SOCIETY.

The annual meeting of this society was held at Poughkeepsie, N. Y., on January 30, the following officers being elected for the ensuing year: President, C. J. Reynolds; vice-president, Jas. Blair; treasurer, Geo. W. Sweet; secretary, N. Harold Cottam. Wm. Saliford gave an interesting talk on his visit to the A. C. S. convention at Toronto. It was decided to hold a carnation meeting February 24.

N. HAROLD COTTAM, Sec'y.

NASSAU COUNTY HORTICULTURAL SOCIETY.

Officers were elected at the annual meeting at Glen Cove, N. Y., in January as follows: President, Alexander Mackenzie; vice-president, H. F. Meyer; secretary, J. F. Johnston; corresponding secretary, J. W. Everett; treasurer, R. J. Brown.

LENOX HORTICULTURAL SOCIETY.

The regular meeting of the Lenox Horticultural Society was held Saturday, Feb. 2, President F. Heeremans in the chair. George H. Instone was elected secretary to succeed George Foulsham, who has gone to Savannah, Ga., to become superintendent of Mr. Shotter's estate. New carnations were exhibited by the F. R. Pierson Co. Among them were White Enchantress, Winsor, Melody and Miss Helen Gould, all of which were very fine. A diploma was awarded to each.

The seventh annual dinner was held in the Curtis Hotel directly after the meeting. One hundred were present, and it was the best dinner the society has ever had. The souvenir menu card was done in red, the front cover having the seal of the society. After the dinner, President Frederick Heeremans read the opening address. Upon its completion he introduced A. H. Wingett, a former president, as toastmaster, whose presentation of the different speakers was characterized by aptness and appreciation of what the occasion demanded. Among the many speakers were Messrs. A. MacConachie, E. Jenkins of Lenox, John H. Starbuck of Pittsfield, A. T. Treadway of Stockbridge, Frank E. Pierson and Joseph Hollister of Pittsfield, Selectman Eustace Jacques, Editor White of Lee, ex-Selectman Richard Stanley, John K. Farquhar of Boston, Jas. T. Scott of New York, W. D. Curtis, proprietor of the hotel, and A. J. Loveless, president of the Chrysanthemum Society of America. Toasts were drunk to the society, the town of Lenox, Mr. Loveless, Toastmaster Wingett, the guests, the press, and Mr. Curtis. Excellent vocal selections were given during the evening by talented artists.

A special meeting of the society was held Jan. 30, when it was unanimously voted to hold the annual ball on Feb. 11.

JOSEPH TANSEY,
Assistant Secretary.

NORTH SHORE HORTICULTURAL SOCIETY.

This society held its regular meeting February 1st, President McGregor in the chair. The subject for discussion was "Annals," continued from the last meeting. The 1906 entertainment committee closed their duties by providing music and refreshments for the evening. Messrs. Menken, Dodge and Morrison were appointed to succeed the old committee. The schedule for 1907 has been issued and distributed. The rose show will be held June 26 and 27; the summer show August 28 and 29.

WM. TILL.

THE "GOOSE AND THE GOLDEN EGGS."

Washington, Jan. 29.—This being the birthday of William McKinley, was "Carnation Day" at the Capitol. The demand for the flower was great, and the florists put up the price. A number of legislators paid 25 cents for a single carnation and some could not get them at all.—New York Times.

WHOLESOME CHESTNUTS.

If sufficient heat cannot be maintained uninterruptedly in the house or that part intended for gardenias, it will be better to leave the gardenias in the pots yet a while, and in the event of a shift being absolutely necessary, and as it is presumed the plants are now in 3 or 3 1-2 in. pots, put them into 4 in. pots and keep them growing. If last year's gardenia plants still in benches are vigorous and in good all-round condition, but are crowded, try the experiment of taking every other one out, leaving the remaining ones for summer flowering. Of course it will be necessary to renovate the soil in the bench.

Where it is required to have American Beauty roses for summer and the plants are put in every year, it will be well to make preparations very soon in the way of getting the benches ready and good soil for the reception of the plants, and what is perhaps of as much importance as anything else is to make sure of getting good healthy stock to plant. It is poor economy to make cheapness the first consideration when ordering plants; better be on the safe side and order the best from concerns sending out no other but the best, then the chances are that when the plants come to hand you will not have to shrink from poor, sickly stock discolored with hereditary spots.

Fuchsias are again coming into favor. Put in as soon as you have a chance all the cuttings you see; keep them shifted and growing, and by early summer you will have a nice lot of ornamental as well as salable stock.

Salvias are satisfactory in most cases from seed if grown along in the proper way, but are not satisfactory if they are simply transplanted from the seed pans into flats and left there to crowd each other into weak, spindly things. After the seedlings are fit to handle it will do well enough to transplant them into flats: in fact, I prefer doing that; then when they show any sign of crowding, pot them into small pots, repotting them afterwards as they may require it, until they are in 3 1-2 or 4 in. pots, stopping them occasionally to get them bushy, but always early enough so that it will not have to be done when they should be in flower.

Vincas are of little use if they are not of some length. Keep them growing as much as you can; if they are now in as large pots as you can give them and these are filled with roots, feed them occasionally but regularly with liquid manure.

Geraniums will now be in 2 in. pots and ready in many cases for 3 in. pots. Now is the time to lay the foundation for stocky plants; good potting soil is a help to that end, and so also will be the process of pinching the tops of all that are at present of lanky growth and later on of all that show a tendency in the same direction. Keep shifting the plants about as often as possible, and each time stir the soil on the surface of the pots. Do everything possible to encourage the plants to grow robust and capable of throwing up good trusses of bloom to tempt buyers, otherwise you need not expect to compete successfully with others who are willing to do what is necessary to produce acceptable goods.

It is early enough yet to begin propagating coleus, and it is a question in my mind, although I am pretty well

decided on it, whether or not it pays the ordinary grower of plants for sale to bother with the cuttings at all, when these can be had in splendid condition and are offered at a low figure by firms having special facilities for handling them in immense quantities. This question is equally pertinent in relation to many other things besides coleus.

The sage who objects to the remark that "it is better to be too early than too late," and is satisfied that dirty sand and old sand, if I may use the term, is just as good as clean, fresh sand for propagating purposes is too late; that kind of advice might have done about the time when Old Mother O'Leary's cow made her famous kick. If a man is a little early with cuttings or seedlings there is some hope for him, but if too late God pity him; that is how I look at it.

Pansies should never be allowed to get into such condition that it will be necessary to take them up in "clumps" as is sometimes advised when disposing of them to customers. It is much the better way to have the plants in such shape that they can be lifted out of the soil in the frame singly and yet have enough soil adhere to them to insure success.

Where changes, alterations or improvements are under consideration or contemplated on private estates, it will be well for the gardener, or whoever is selected to carry out the work, to make beforehand a careful estimate of the cost and make the same known plainly to the owner of the property, taking care always to base the estimate rather higher than lower than actual conditions and future eventualities may warrant; this will most likely prevent much unpleasantness at the intervals of settlement.

No matter how a skilful gardener may contrive to beautify a country residence with plants innumerable, if from any cause the lawn gets into poor condition and in consequence the grass patchy and weedy, much of his labor has been in vain; therefore the greatest care should be taken that the lawn may look well. Animal manure is doubtless of great value for lawns, although there may be a good deal in the complaint that such manures are productive of weeds; however that may be, the fall of the year is the best time to apply that kind of manure, while for spring application wood ashes, or bone, or blood and bone, are preferable. If wood ashes are used it will be necessary to caution those engaged in spreading it to do so carefully and evenly, not to get a thick coat anywhere, otherwise burnt spots will later make their appearance on the lawn. Now is the time to cart or wheel on to the lawn any soil required to fill in where settlements are noticeable, and it is also the time when manure should be conveyed to beds and borders for digging in later.

It remained for a southern Democrat, whose voice has little weight, to rebuke Speaker Cannon for his refusal to permit the Appalachian and White Mountain forest reserve bill to come before the house of representatives. By similarly displaying a fighting spirit, New England members might be able to force the speaker to at least permit the house to judge the bill on its merits. But they still sit meekly under his thumb, and the prospect for any action during the present session is very slight.—Boston Record.

PREPARING FOR THE JAMESTOWN EXHIBITION.

I have just returned from a trip to Norfolk, Va., and the exposition grounds at Jamestown. It might be interesting to some to learn that the total appropriations for the Jamestown Exposition are larger than they were for the Buffalo Exposition; the grounds are also larger than those of Buffalo.

A new feature of the coming exposition, and one that ought to be of great advantage to the promoters, is the plan of building with a view of saving the buildings. To begin with, the land was drained and piped for modern conveniences, and at the close of the exposition cottages and buildings can be either rented or sold for a town settlement. Warren H. Manning and John Thomas Withers are at the head of the landscape work. The boundary fence designed by Mr. Manning is very beautifully planted with honeysuckle and Wichuraiana roses. The growth is such as a genial soil and moderate climate only can make—just about three times as much growth made in one year as could be made in more northern latitudes. That genial horticulturist, Mr. Charles H. Pratt, is pretty busy with the grounds, but is handicapped with all kinds of building refuse where he longs to sow grass and plant shrubs.

The soil is easy to work, being a fine, sandy loam, retentive of moisture and, once planted, results will come along quickly; yet from my view of it, Mr. Pratt has a poor chance to get things in shape before the opening, April 26. THOMAS L. BROWN.

Black Hall, Conn.

PROPAGATION OF LORRAINE BEGONIA.

Horticulture Publishing Co.:

Would you kindly tell me through your paper what treatment to give begonia Gloire de Lorraine after it has finished flowering, also when to start to propagate it, and at what temperature should the cuttings be kept, and oblige,

Yours truly,

R. D.

Editor of HORTICULTURE:

In reply to your inquiry of the 14th inst. We usually keep our Lorraine begonias after flowering in a temperature of about 50 degrees; commence propagating about May 1st, and run the propagating house 60 to 70 degrees.

Yours truly,

T. ROLAND.

PERSONAL.

John H. Cox sailed from Boston on February 5 to represent the F. R. Pierson Company in "the old country." He has in carnation Winsor a trump card.

Ferdinand Tschupp, of Union Hill, N. J., is reported as dangerously ill. Mr. Tschupp is one of the pioneer florists of Hoboken, a man highly respected for his integrity and industry.

G. E. Bradshaw, of Ossining, N. Y., formerly connected with the wholesale cut flower trade in New York city, is now engaged as an inspector on the new station site of the Penna. R. R. tunnel.

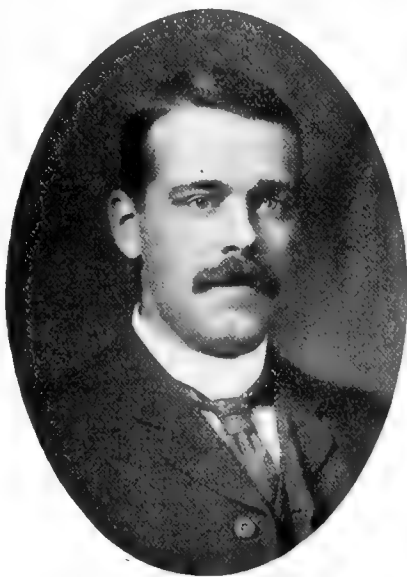
GREENHOUSE CONSTRUCTION.

A Paper Read Before the American Carnation Society by R. O. King.

During the past few years many papers have been read on greenhouse construction. The general methods of construction have been very thoroughly described and most of the growers are agreed for instance, that cypress is about the best thing to use for the wood work, that iron posts are better than wood posts, that an iron gutter is better than a wood gutter, etc. All of these things are so familiar that it is hardly worth while going into further discussion about them. It will perhaps be more interesting to take up some points of greenhouse construction which are just as important, but which have not received as much attention. For instance, the use of glass up to 24 inches in width makes a lighter and less expensive house than narrow glass. The choice of locality for a greenhouse plant should depend among other things on the amount of light available. The application of the scientific principles used in the design of large buildings and bridges to greenhouse construction is something which should interest the grower as well as the designer. The application of these principles has not been necessary in the ordinary construction of small houses where the accumulated experience of many years has been a sufficient guide. When, however, it is necessary to design a house unlike anything previously constructed there is of course no experience to fall back on, so a safe design can only be worked out by the application of the scientific methods referred to.

WIDE GLASS.

Some years ago 16 inch glass was considered about the limit for greenhouse construction. More recently 18 inch glass has been used. In Canada a number of plants are built with 20 inch double diamond English glass. Twenty inch glass is probably selected because 20 inches square is a good size for butting and it does not exceed 40 united inches. In the United States where lapped glass is most generally used the size most in use is 16x24 with the bars 16 inches apart. A few of the more daring growers have risked building their houses with the bars 24 inches apart and using this same size glass. In our own experience a number of customers have put the glass in this way. In only one case do we know of any trouble having occurred. Such great advantages in economy of material and the lightness of construction are obtained by the use of this wide glass that it is worth making some study of the re-



R. O. KING

quirements that are necessary for the satisfactory use of 24 inch glass.

BREAKAGE FROM HAIL.

It seems unlikely that 24 inch glass will suffer any more damage from hail than 16 inch glass. The reason of this is that glass laid the 24 inch way has more of a chance to spring than glass laid the 16 inch way, so that in case of a sharp blow such as from a hailstone, 24 inch glass, although really weaker, can give way more without breaking than the 16 inch glass, consequently the extra spring makes up for the extra weakness. This action of hail was well illustrated at the Lancaster plant of W. J. Palmer & Son. In July, 1905, a hail storm passed over this plant and broke considerable glass. The house with 24 inch glass which had just been built did not suffer any more in proportion than the houses with 16 inch glass. In fact, the greatest damage was done on some 10 inch glass though this was single thick. It seems that a hailstone big enough to break 24 inch glass will be big enough to break 16 inch glass so the danger from hail need not worry any one who wishes to use wide glass.

DEAD WEIGHT ON GLASS.

Glass is likely to be broken by the dead weight of large accumulations of snow and ice, for this reason it is interesting to determine just what weight glass can stand. In Canada where everyone believes we have a great deal of snow, a number of growers are using 20 inch English double diamond. Now English double diamond is about as heavy as American single thick. A box of 50 feet of American single thick glass is supposed to weigh 70 pounds while a box of 100 feet of English double diamond is supposed to weigh

140 pounds. It follows from this that our Canadian friends are using 20 inch single thick glass in localities where much more snow may be expected than in localities in the United States. In addition to this, more of the greenhouse plants in Canada are built on the ridge-and-furrow system so that they get the full benefit of the weight of a sudden snow storm. We have made some tests on the weight of American double thick glass taken the long way and the accompanying table shows the results obtained.

TABLE I.

Test of Breaking Strength of 16x24, American, Double Thick, A Glass.

Support, 24 Inches Apart.
Sand Used for Loading.

Weight of Light.	Load Required to Break Light.	Breaking Load per Sq. Foot
4 lbs. 5 ozs.	107 lbs.	40.2 lbs.
4 lbs. 4 ozs.	40 lbs.	15.1 lbs.
3 lbs. 12 ozs.	57 lbs.	21.5 lbs.
4 lbs. 7 ozs.	61 lbs.	23.0 lbs.
4 lbs. 12 ozs.	110 lbs.	41.3 lbs.
4 lbs. 4 ozs.	95 lbs.	31.9 lbs.

The peculiar point about these results is that the strength does not depend at all on the thickness. You will notice that one light of almost the same thickness as the light which took 110 lbs. to break broke at only 40 pounds. Another peculiar feature you will notice is that although the glass is supposed to be double thick and each light should therefore weigh four pounds 11 1-2 oz. in order to make 90 pounds to a box of 19 lights, there is not one light up to weight. You will probably find that this is the general case and although you pay for double thick glass you really get what ought to be called single thick. The glass taken for our test was selected at random and the weights found therein are confirmed by some weights taken a short time ago in Philadelphia. Selecting two boxes at random each light was weighed carefully and in one box 14 lights out of the 19 weighed less than four pounds each. In the other 13 lights out of 19 weighed less than four pounds each and some of them were very much less than four pounds each. Leaving out of consideration two or three extra heavy lights in each box the remainder of the glass was practically single thick. This probably explains why Canadian growers find English double diamond really as strong as American double thick. In order to cover this point the weight of six boxes from two different factories is given herewith.

TABLE II.

Weight of Glass, 16x24, A Quality, Double Thick.

Eldred, Pa., Glass.		Brookville, Pa., Glass.	
Gross wt. of box.	Net wt. of glass.	Gross wt. of box.	Net wt. of glass.
87 lbs.	77½ lbs.	76 lbs.	66½ lbs.
85½ lbs.	76 lbs.	85½ lbs.	79 lbs.
86¼ lbs.	77¼ lbs.	85¼ lbs.	76¼ lbs.
94 lbs.	84½ lbs.	79½ lbs.	70 lbs.
87½ lbs.	78 lbs.	85½ lbs.	76 lbs.
100½ lbs.	91 lbs.	79¼ lbs.	69¼ lbs.
Average wt 80.8 lbs.		Average wt. 76.8 lbs.	

The glass is all labeled A. double thick and is as fine looking glass as

one usually sees. The average weight of one lot is 76.8 pounds per box and the other is 80.8 pounds per box, making both lots very much under requirements of double thick glass.

Referring again to the test of the strength of glass, the peculiar fact the strength does not depend on the thickness is probably explained by difference in annealing. If the glass for a greenhouse is to be selected from the point of view of strength, then no other qualification is more important, and we should have some guarantee from the makers that the glass has been properly annealed. The purchase of properly annealed glass has not been given sufficient attention, and it is very likely that a great deal of the annual breakage of glass in greenhouses is due to defective annealing. Certainly if you put some lights in your house which will only stand 40 pounds, and others which will stand over 100 pounds, you must expect the weak ones to go first. As glass is now manufactured it is perhaps impossible to devote special attention to greenhouse requirements. The glass people say that the workmen do not like to make more money on larger sizes. The greenhouse trade, however, is increasing rapidly and improvements are being made in the manufacture of glass so that perhaps some time we will be fortunate enough to have a factory making glass especially adapted for greenhouse work.

SUNSHINE AVAILABLE IN DIFFERENT LOCALITIES.

In locating a greenhouse plant the only thing not usually considered is the amount of sunlight that is to be expected. Yet there is nothing more important and a guarantee of good measure of sunlight would be a very

valuable asset for a greenhouse plant. Localities only one or two hundred miles apart are found to have very different amounts of sunshine during the winter months. For instance, before locating the United States Cut Flower Company's plant at Elmira it was found that the sunshine to be expected in that locality is about double what would be expected in Buffalo. In order to illustrate the great difference in sunshine for different localities, a table has been prepared, covering the winter months for the past three years. It is only possible to give observation for points widely separated owing to the extent of the territory covered, but it should be kept in mind that the difference shown by the table as occurring between points widely separated may also occur between what might be called local points, as in the case of Buffalo and Elmira as already referred to.

Though it is perhaps unnecessary, or rather unwise, to start a discussion as to the relative merits of houses built detached or built on the ridge-and-furrow system, still the consideration of this sunshine table leads to the observation, that as lack of sunshine is the condition that confronts most of us, it is just as well to build houses to suit that condition. To meet that condition, you must try to cover as much ground surface as possible with as little structural material as you can get along with. Now the way to cover ground with a small quantity of material is to use the ridge-and-furrow system, making the pitch of the roof as low as possible and using as wide glass as you will risk. Remembering that we are meeting the condition of no sunshine, it also follows that it does not matter whether the houses run north and south or east and west.

Finally, provided your houses are built to meet the worst conditions, that is no sunshine, will they not then take care of themselves under better conditions, that is with sunshine?

DESIGN OF GREENHOUSES FROM CONSIDERATION OF STRENGTH OF MATERIALS.

It may be interesting to describe the process of designing a new type of greenhouse for which practically no data is furnished by previous actual building experience. A design for an even-span house, 150 feet wide and having only five rows of supporting posts, has recently been completed. This house is a great departure from present standards and will set a record for wide houses which is not likely to be surpassed for some time, or at least until we can profit from the success or failure of the gentlemen who are willing to experiment on such a grand scale. Beginning with the glass, it is desired to lay it with the supporting bars 24 inches apart. Referring to table 1 it is found that the average weight required to break the glass is 30 pounds per square foot. This is equivalent to about one foot of wet snow. The glass is hardly likely to be called upon to stand more than this, so the question of strength required against dead weight can be considered settled. The frame work of the house must now be made strong enough to carry somewhat more weight than the glass could stand, so that the glass would break before the framework collapsed. Considering the length of rafter, it is seen to divide conveniently into three lengths of 28 feet each on each side of the ridge. As it is desired to use as few posts as possible, suppose it is decided to put in a post at every 28 feet section and carry the intervening space

SUNSHINE.

Winter, 1903—4.

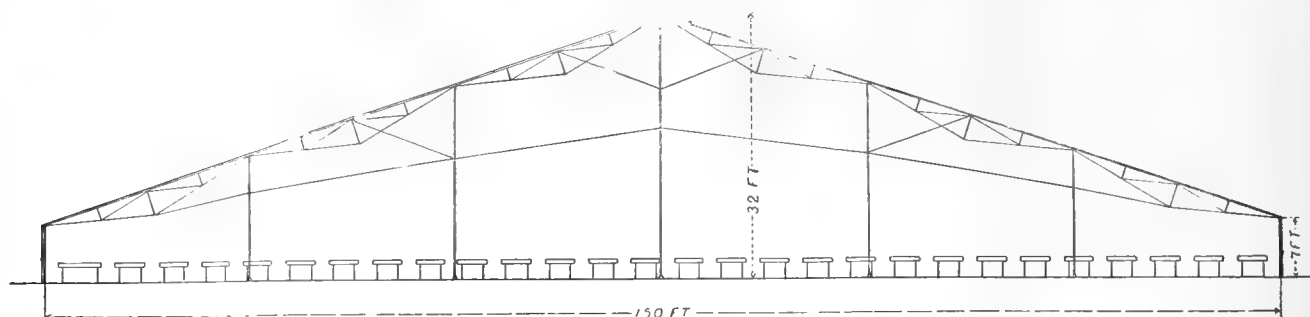
Winter, 1904—5.

Winter, 1905—6.

December. January. February. December. January. February. December. January. February.

UNITED STATES.											
	Hours	Per Cent. of Possible.	Hours	Per Cent. of Possible.	Hours	Per Cent. of Possible.	Hours	Per Cent. of Possible.	Hours	Per Cent. of Possible.	Hours
Boston, Mass.	168.1	59	151	51	164	53	107	38	150	51	188
New York, N. Y.	143.8	50	130	44	177	57	119	41	159	53	182
Buffalo, N. Y.	57.6	20	93	32	60	20	50	18	78	27	164
Washington, D. C.	185.3	63	155	51	147	47	100	34	105	35	134
Toledo, Ohio	50.5	19	89	30	126	41	66	23	100	34	118
Cincinnati, Ohio	169.8	58	156	52	169	54	136	46	100	33	148
Chicago, Ill.	134.4	47	127	43	143	47	94	33	111	38	158
St. Louis, Mo.	182.8	62	178	58	129	41	141	48	143	47	160
Sault Ste. Marie, Mich.	32.7	12	123	43	159	53	58	22	84	30	156
St. Paul, Minn.	123.2	45	163	57	160	53	97	35	158	55	210
Omaha, Neb.	153.9	53	153	51	172	55	160	56	166	56	205
Bismarck, N. Dak.	120.8	45	159	57	141	47	114	43	152	55	226
Cheyenne, Wyo.	198.4	69	179	60	161	52	188	65	142	48	221
Helena, Mont.	144.5	54	124	44	153	51	110	42	104	37	206
Salt Lake City, Utah	173.6	60	154	52	144	47	171	59	156	52	162
Spokane, Wash.	35.3	13	16	6	43	15	40	15	54	20	137
Boise, Idaho	157.7	57	125	43	99	33	138	50	72	25	182
Portland, Oregon	90.7	34	47	17	87	29	61	23	94	33	163
San Francisco, Cal.	183.7	62	232	76	100	32	137	46	133	44	192
CANADA.											
	Hours	Per Cent. of Possible.	Hours	Per Cent. of Possible.	Hours	Per Cent. of Possible.	Hours	Per Cent. of Possible.	Hours	Per Cent. of Possible.	Hours
Victoria, B. C.	42.5	16	32.1	10	39.2	13	28.1	11	69.1	25	135.2
Nanaimo, B. C.	36.2	14	29.8	11	41.4	14	19.1	9	67.5	25	126.7
Agassiz, B. C.	35.4	14	31.3	11	23.0	8	12.6	4	64.9	24	120.5
Battleford, Sask.	78.1	31	115.8	44	147.1	50	91.8	36	146.2	57	168.9
Indian Head, Sask.	75.8	30	81.4	31	120.3	41	66.8	26	97.9	37	139.2
Brandon, Man.	76.9	31	103.1	39	130.2	44	61.7	27	119.4	45	166.0
Winnipeg, Man.	63.0	25	95.3	35	130.5	45	55.9	22	140.4	53	156.7
Woodstock, Ont.	33.7	12	46.9	16	87.5	30	49.8	18	84.1	29	92.6
Toronto, Ont.	63.5	23	87.0	30	131.5	45	68.5	25	83.8	28	116.7
Lindsay, Ont.	46.8	17	81.5	29	102.7	35	56.7	21	70.3	24	107.9
Gravenhurst, Ont.	79.5	29	72.5	25	125.0	43	89.7	33	102.0	36	137.6
Kinston, Ont.	74.1	27	74.3	26	126.3	43	58.9	21	85.4	29	142.3
Ottawa, Ont.	53.2	19	65.1	23	97.0	33	70.6	26	79.6	28	120.8
Montreal, Que.	58.9	20	42.8	18	86.1	25	67.2	29	79.1	33	110.5
Quebec, Que.	62.8	24	64.3	23	106.0	36	101.1	38	110.2	39	111.4
Fredericton, N. B.	81.9	30	77.4	27	106.5	37	137.1	50	137.8	49	128.3

FIG. IV.



This roof covers 28 benches each 4 ft. in width.

by truss work of the form shown in figure IV. The load that each truss is to carry in order to be strong enough to support the glass under its breaking load is found by taking the area of roof supported by this truss and multiplying this by the weight per

TRUSS SECTION OF 150 FT. HOUSE

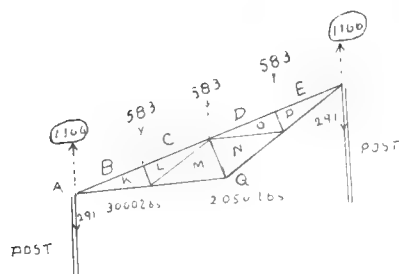


FIG. V.

square foot that the glass will bear, that is 30 pounds. Now this is the breaking load of the glass that the truss would be called on to bear, but it would be safe to take the working load as one-fourth of this, or 7 1-2 pounds per foot. This even would be a high working weight, as ordinarily the truss has only to carry the weight of the glass, which is less than two pounds per foot. Adding 2 1-2 pounds per square foot to cover the weight of the glass and bars, we have ten pounds per square foot as the total working load for the truss. Supposing the posts are spaced 8 feet 4 inches apart lengthwise of the house, then each truss has to carry a total working load of 8 ft. 4 in. x 28x10 pounds, or 2333 pounds. This loading may be considered as being distributed at the joints and the ends of the truss as shown by figure V. The stress or strains produced in the members of the truss can now be determined by means of the device known as the stress or strain diagram. The stress diagram for the truss we are considering is shown by figure VI. It will be noticed that the lines in figure VI are drawn to a scale of 333 pounds to 1 inch, and that they are all paralleled to one or other of the lines in the truss shown in figure V. Without attempting further explanation it may be stated that the length of each line in figure VI represents the number of pounds' strain or stress in the corresponding member of the truss. For instance, the line k b in figure VI is parallel to the lines between b k on figure V, that is, the upper member of the truss or the sash bar between the two lower purlins. The lines b k

diagram represents 333 pounds, the stress or strain in the sash bar is 3200 pounds. In the same way the stress in the lower truss rod is found to be 3000 pounds. After finding in this way the strain in each member of the truss, calculations must be made to obtain the correct size for each. For instance, if the sash bar is of cypress, then it must be heavy enough to stand a working end strain of the 3200 pounds. In the case under discussion it has been calculated that this bar must be 1 7-8 x 2 1-2 inches; this size giving a working end strain of 3200 pounds and a breaking strain of 12,800 pounds. The lower member, which we found must carry 3000 pounds, is in tension, so should be of iron or steel, and by a separate calculation it is found that 5-8 inch diameter is suitable for this strain. The other members of the truss are proportioned in the same way. Having now designed the truss to carry the roof, it is necessary to design the posts or columns to carry the truss. The strength of a column depends greatly on its length,

so by properly bracing a long, slender column it is practically divided by the bracing into a corresponding number of short columns. In the wide house under consideration it is found that 2-inch pipe properly braced in every direction will carry the roof. The design is now complete, leaving the glass the weakest member as it should be, for it is seen that although the breaking strength of the glass is 30 lbs. per square foot, and the breaking strength of the truss work is the same, yet the glass is not uniform in strength whereas the trusses are, and as 30 pounds is an average, it follows that half the glass would be broken by the time this load would be reached; and if half the glass is broken, half the weight has gone with it, so our framework stands to be subjected in the limit to only one-half of its breaking load. There is a good deal of theory about all of this, but many of these here now will likely be at the S. A. F. at Philadelphia in August, and there will be an opportunity to see how it has all worked out.

STRESS DIAGRAM FOR TRUSS IN FIG. V.

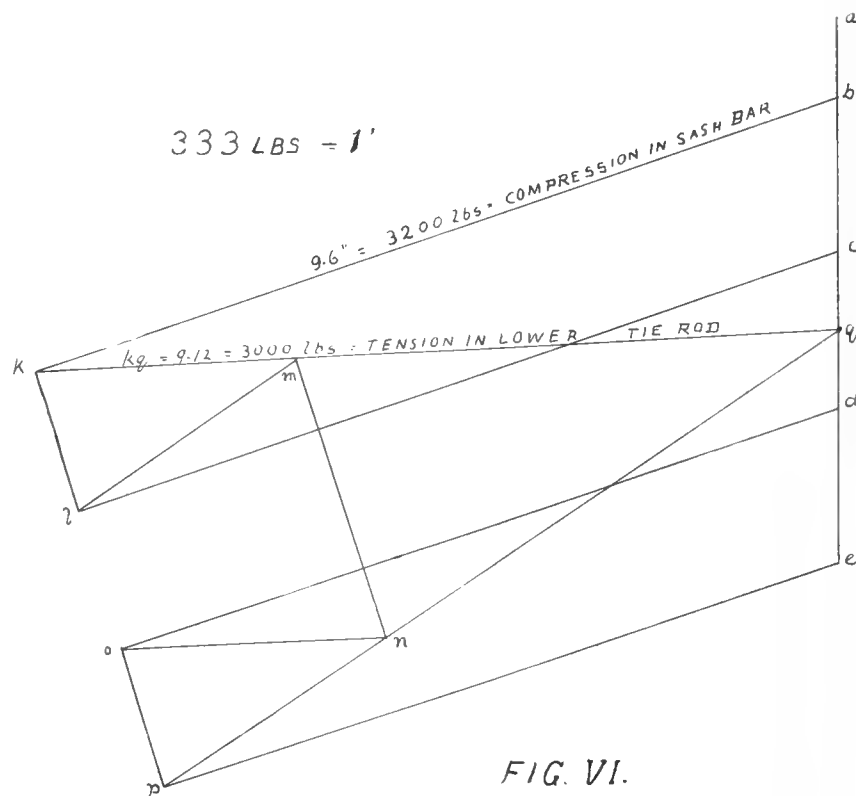


FIG. VI.

Seed Trade

Retail seedsmen, and particularly the catalogue trade, report business not up to last year in volume, but, then, we had practically spring weather, with but few really cold days up to almost the first of March last season, while winter has been no mock article this year. No doubt the close of the season will compare favorably with last or any previous year.

Following the scramble for onion seed and other short items last fall, amounting almost to a panic, has come a decided reaction, and holders who would not quote prices at all, are now offering seed unsolicited at prices they would have scorned two months ago. The tendency towards panic every time a shortage is reported has been criticised more than once in these columns, not with the expectation of effecting any radical change in this direction, but with the idea of calling attention to the ill effects of inflated prices early in the season to be followed by a sinking spell later, carrying prices below actual values. If the jobber can induce the retailer to buy at the high figures, to be followed by the inevitable decline, it usually makes the latter dissatisfied, and reluctant to accept the jobbers' judgment, and even suspicious of his honesty in the future. All of this is unfortunate, and is really due to misjudging the situation, rather than any premeditated intention of misleading the buyer. The fear lest they may not get the last penny an article may bring causes many to be very bullish on prices whenever a shortage is reported. While this is quite proper enough, it is the extreme that makes trouble. Cultivate moderation, 'tis a fine habit.

The House of Representatives has overruled the recommendations of its Committee on Agriculture, and restored the appropriation for the purchase and free distribution of garden seeds, and the Senate offers but a forlorn hope that this abuse will be discontinued. The seedsmen are greatly

New Orchid-Flowered Sweet Peas

These are a distinct "break" in Sweet Peas, differing from the standard sorts by the extraordinary size of their flowers, usually measuring 2 inches across, and by the standards being crinkled and wavy, while the wings are large and spreading. Another splendid feature is that a very large percentage bear four blossoms to the stem, which are long and strong. To sum up, they possess every characteristic that can be desired in Sweet Peas, and will undoubtedly supersede standard sorts of same color as soon as they become more plentiful.

Countess Spencer. A lovely clear pink, shading darker at the edges. 10c per oz., 25c per ¼ lb.
E. J. Castle. Rich carmine-rose, shaded with salmon, very striking, especially under artificial light. 17c per pkt., 5 pkts., 75c.

Frank Dolby. The largest and finest pale lavender-blue. 17c per pkt., 5 pkts., 75c.

Gladys Unwin. Charming shade of pale rose-pink; extra long stems and very valuable for cutting. 10c per oz., 25c per ¼ lb.

Helen Lewis. (Orange Countess) Brilliant orange-rose. 25c per oz.

Helen Pierce. This is the new gloxinia-flowered Sweet Pea, being marbled blue on a white ground, with the veins showing a little deeper exactly like a mottled Gloxinia. 15c per oz., 50c per ¼ lb.

John Ingman. Rich salmon-rose. 15c per oz., 50c per ¼ lb.

Mrs. Alfred Watkins. A superb pale pink similar in shade to the old Princess Beatrice. 17c per pkt., 5 pkts., 75c.

Nora Unwin. The finest white now in existence. 17c per pkt., 5 pkts., 75c.

Phyllis Unwin. A veritable giant among Sweet Peas; color a deep rose-carmine. 15c per oz., 50c per ¼ lb.

DREER'S GARDEN BOOK
and Florist's Catalogue
now ready and sent on application to all florists.

Henry A. Dreer

714 Chestnut Street
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disappointed, and many much surprised at this turn of affairs, but when it is remembered that the case has been tried again before the same jury that convicted them a year ago, there is really nothing to wonder at. No client would ask his attorney to try his case before a jury that had once decided against him. There will be many new men in the next Congress, men who know that the representative farmers of the country are not flattered by receiving a few packets of bargain counter seeds, and while past experience does not warrant a very strong hope that the new Congress will do any different from its predecessors, yet it is a new jury in part, at least, and might possibly take a different view of this free seed matter.

An interesting feature of the forthcoming Cannery Convention is to be a model canning factory in full operation. New string beans and peas are

to be shipped from the South, and corn in the husk which has been in cold storage since last fall will be used, and a practical demonstration of the canning industry will be given each day. As the public is to be freely admitted to the machinery hall this will, no doubt, be one of the chief attractions. It is needless to say that this will be a very expensive demonstration, and the men who have conceived and will carry out the idea are worthy of generous praise.

On account of the recent severe drought, Japan lilies in the field have suffered considerably in their growth, and as a result of the strong demand of last year many seedable bulbs were shipped. On this account prices of bulbs will be at least 20 per cent. higher this year than last.

Henry Nungesser & Co., received on January 28 a shipment of 1980 bags of Bromus inermis—the largest single shipment of this grass seed ever brought to this country.

PUBLICATIONS RECEIVED.

The Potato Year Book for 1907, the official publication of the National Potato Society of England, is a very interesting volume. It is the first "Year Book" dealing exclusively with the potato-growing industry, and will undoubtedly prove a most useful handbook for every one engaged in growing or improving the humble but indispensable vegetable. Questions of crossing, culture, testing, diseases, exhibiting, etc., are dealt with by eminent authorities in original papers and portraits of a number of the writers are given. Sir John T. D. Llewelyn is president of the society, and W. H. Adsett, Hatton House, Great Queen street, London, is honorable secretary.

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French and American Greenhouse Glass

Particularly in the larger widths, which are now being more generally called for. All our glass is hand blown and annealed with the greatest care.

Standard Plate Glass Co.

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SEED CATALOGUES RECEIVED.

Michigan Seed Company, Bay City, Mich. 1907 catalogue of "Northern Grown" seed.

Cox Seed Co., San Francisco, Cal. Seed and Plant Annual for 1907. Colored covers, sweet peas and can-nas.

W. Atlee Burpee & Co., Philadel-phia, Pa. Wholesale catalogue for seedsmen and dealers only who buy to sell again.

Rickards Bros. Bridgeman's Seed Warehouse, New York. Catalogue for 1907. A well classified list put up in attractive form and very much up to date.

Leonard Seed Company, Chicago. Flower and vegetable seed list for 1907. Nasturtiums on front page, vegetables on back. A comprehensive general list plentifully illustrated.

James Vick's Sons, Rochester, N. Y.—Vick's Garden and Floral Guide. An old and well-tested favorite and welcome visitor. Contains a color plate of Vick's Quality Asters.—Vick's Wholesale Price List for 1907. Typographically ahead of the average wholesale seed list and very complete.—"Vick Quality Asters," artistically excellent and convincingly conclusive as to those grand asters for florists' use.

"Make out your list of asters, daisies, nasturtium seeds, etc., and send it to your congressman."—Boston Record.

PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a large supply of exceptionally fine quality.

For the Lawn,

The Greenhouse,

For the Herbaceous Garden,

For the Flower Garden,

For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,
6 and 7 So. Market St., BOSTON.

CANNA ROOTS

We offer an exceptionally fine lot with two and three eyes, all true to name, in the finest and most profitable varieties.

Plant now to procure good saleable plants for spring.

	Per Doz.	Per 100	Per 1000
Alice Roosevelt. Rich crimson, 5 feet	\$0.75	\$5.00	\$47.50
Alphonse Bouvier. Velvety red, 6 to 7 feet .....	.50	3.50	30.00
Alsace. Creamy white, 4 feet .....	.50	3.00	25.00
Allemania. Salmon, yellow border, 4 to 5 feet .....	.50	3.50	30.00
Austria. Golden yellow, 4 to 5 feet .....	.50	3.50	30.00
Beaute Poitevine. Crimson scarlet, 3 to 4 feet .....	.50	3.50	30.00
Burbank. Pure yellow, very fine .....	.50	3.00	25.00
Charles Henderson. Crimson, 4 feet .....	.50	3.50	30.00
Chicago. Vermilion scarlet, 4 feet .....	.50	3.50	30.00
Discolor Gigantea. Red, deep border, 5 to 6 feet .....	.50	3.50	30.00
Duke of Marlboro. Rich crimson, maroon, 4 to 5 feet .....	.50	3.50	30.00
Egandale. Cherry red, bronze foliage, 4 to 5 feet .....	.60	4.00	35.00
Express. Bright crimson, very dwarf	1.00	7.00	60.00
Fairhope. Crimson, 4 to 5 feet (30c. each)	3.25	25.00	215.00
F. R. Pierson. Scarlet, streaked yellow and yellow centre, 3 feet ..	.50	3.50	30.00
Florida. Orange scarlet, edged yellow, 3 to 4 feet .....	.50	3.50	30.00
Florence Vaughan. Yellow, spotted red, 5 to 6 feet .....	.50	3.50	30.00
Flamingo. Crimson, 3 feet .....	.60	4.00	35.00
Italia. Golden yellow, crimson blotched, 5 feet .....	.50	3.50	30.00
J. D. Cabos. Apricot orange, bronze foliage, 4 feet .....	.50	3.50	30.00
J. D. Eisele. Crimson, yellow throat, 5 feet .....	.75	5.00	47.50
L. Paltry. Pink flowers, 4½ feet .....	.50	3.50	30.00
Longford. Scarlet, bordered yellow, 3 to 4 feet .....	.75	5.00	47.50
Louisiana. Red, very large, 7 feet (25c. each)	2.75	20.00	180.00
Marechal Vaillant. A very dark red bronze foliage .....	.50	3.50	30.00
Mlle. Berat. Soft deep pink, the best bedder .....	.50	3.50	30.00
Mrs. Kate Gray. Orange and gold, 5 feet .....	.75	5.00	47.50
Madame Crozy. Vermilion, bordered yellow, 3 to 4 feet .....	.50	4.00	37.50
Mt. Blanc. A fine white, 2 to 4 feet (20c. each)	2.00	15.00	125.00
Pennsylvania. Deep scarlet, 6 feet .....	.75	5.00	47.50
Philadelphia. Deep crimson, 3 feet .....	.50	3.50	32.50
Pres. Carnot. Vermilion, bronze foliage 5 to 6 feet .....	.60	4.00	35.00
Pres. Cleveland. Scarlet, 3 to 4 feet .....	.50	3.50	30.00
Pres. McKinley. Brilliant crimson, 3 to 4 feet .....	.50	3.50	30.00
Queen Charlotte. Scarlet, gold border, 3 to 4 feet .....	.50	4.00	37.50
Robusta Perfecta. Red, tall, dark foliage .....	.50	3.50	30.00
Shenandoah. Pink, bronze foliage, 4 feet .....	.50	3.50	30.00

DON'T COMPARE the cannas offered above with lower priced inferior roots.

Send for our new Wholesale Florists' Seed Book.

HENRY F. MICHELL CO.

1018 Market Street,

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JOHNSON'S HIGH GRADE ASTER SEED FOR FLORISTS

From the Best American and European Growers

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Queen of the Market, three weeks earlier than other Asters, separate colors	\$0.20	\$0.60
Choice mixed .....	.15	.50
Simple's late Branching, high-grade American grown not California, separate colors .....	.20	.75
Choice mixed .....	.20	.75
Ostrich Plume, separate colors ..	.25	1.50
Choice mixed .....	.25	1.25
Victoria, highly prized by florists for bedding and cutting, separate colors ..	.25	1.75
Choice mixed .....	.25	1.50
Improved peony perfection, very popular with florists, a profuse bloomer, separate colors .....	.25	1.50
Choice mixed .....	.20	1.25
Mignon, an invaluable variety for cutting, pure white .....	.25	1.50
Choice mixed .....	.25	1.25
Hohenzollern, the earliest of all Asters, separate colors .....	.20	1.25
Choice mixed .....	.20	1.00
Comet, a beautiful class, with curled and twisted petals, separate colors ..	.25	1.50
Choice mixed .....	.25	1.25
Daybreak, (originator's stock), shell-pink, one of the most beautiful of Asters, early, long-stemmed and of compact habit .....	.30	2.00
Purity, (originator's stock), pure white, and identical in form and habit with Daybreak30	2.00

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"HORICUM" KILLS SAN JOSE SCALE
Sold by the seed dealers

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The most magnificent White yet introduced, far outdistancing Dorothy Eckford.

"E. J. Castle"

Rich Carmine Rose, Salmon Shading.

"Frank Dolby"

An enormous flowered Lady Grisel Hamilton.

"A. J. Cook"

Fine violet-mauve silk, resembling Mrs. Walter Wright in color.

"Mrs. Alfred Watkins"

A superb Pink, somewhat like the old Princess Beatrice in color.

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Each per packet, 25 cents.

To be obtained of all American Seedsmen.

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The largest wholesale growers of Flower Seed and Special Stocks of Vegetable Seed in the British Empire.

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Beautifully illustrated catalog, colored plate, etc., describing Groff's Hybrids, Named Novelties of rare beauty; Mixtures and Collections to color and fine Mixtures of all colors. Write for it.

ARTHUR COWEE

Gladiolus Specialist
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W. & D. SPECIALTIES for FORCING

Mignonette, "New York Market." Sweet Peas, "True," Christmas Flowering, (pink and white). Tomato, "The Don," "Stirling Castle," Mushroom Spawn, "English" and "Pure Culture." Send for 1907 Catalogue.

Weeber & Don, Seed Merchants & Growers
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Grey's Highest Grade of Tested Seeds

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for the most critical

GARDENER, FARMER
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Wholesale Catalogue

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NEW CROP flower seeds are mostly all on hand now and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

Cold Storage Lily of the Valley Pips. Best possible grade, 1000 in case at \$12.00 per 1000.

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NEW STOCKS FLOWER SEEDS for FLOPISTS

Wholesale Catalogue Ready. Send for it today. But first read our advertisement on page 105 in the Horticulture for January 26th, 1907. It is worth reading.

James Vick's Sons,
Seedsmen, Rochester, N. Y.

CAULIFLOWER SEED CABBAGE

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

ASPARAGUS

Plumosus Nanus

Greenhouse Grown

FINE PLUMP SEED

\$5.00 per 1000

BRIDGEMAN'S SEED WAREHOUSE

RICKARDS BROS. Props.

37 East 19th St., NEW YORK CITY

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Blue List of Wholesale Prices mailed only to those who plant for profit.

BRECK'S HIGH GRADE FLOWER AND VEGETABLE SEED

FRESH STOCKS for the Florist, Market Gardener and Farmer. Catalogues on application

Joseph Breck & Sons Corp.

47-54 NO. MARKET ST., BOSTON, MASS.

Comet Tomato

Those who force tomatoes should give "Comet" a trial. This variety has been the talk of gardeners around Boston the past season. Those who have seen it growing declare there's nothing to compare with it.

Seed, \$5.00 per oz. Trade packet \$1.00.

WILLIAM SIM, Cliftondale, Mass.



Rose Hill Nurseries

The Oldest and Largest Orchid Establishment in America. The Largest Collection of Palms, Ferns, Stove and Greenhouse Plants.

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have the finest stock of recognized **Hardy Rhododendrons, Azaleas, Andromedas**, high class Evergreens and specimen Conifers. **Ask for special list of plants grown for the American trade.**

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CATALOGUES RECEIVED.

B. F. Mesick & Son, Allen, Md. Spring catalogue of choice strawberry plants.

H. H. Berger & Co., New York City. List of tested flower seeds, imported and domestic bulbs and plants. Cover quaintly illustrated in Japanese style. Many desirable Japanese specialties and novelties are listed in this interesting catalogue.

Haskell Ave. Floral Company, Dallas, Texas. Roses, carnations and chrysanthemums occupy the major part of this attractive catalogue which includes also a variety of greenhouse plants. An excellent reproduction in colors of Catherine Mermet rose adorns

"Everything for the Hardy Garden" which has just been issued by the Eastern Nurseries, Jamaica Plain, Mass., is a delightful little volume which no one can peruse without fairly hungering for the garden gems illustrated and described in it. We understand the descriptive matter was written by Miss Laura Dawson, who evidently inherits the fascinating diction of her father, Jackson Dawson.

A catalogue which would be in perfect keeping with the furniture of the most richly furnished drawing room is the list of roses sent out this season by M. H. Walsh, Woods Hole, Mass. The cover is a splendid reproduction in colors of rambling rose Hiawatha. Inside there are many large and beautiful half tones and a reproduction in colors of a water color painting of rose Evangeline. This catalogue is a work of art.

INCORPORATED.

The New England Consolidated Nurseries Co., Boston; garden and farm products; capital, \$10,000; Pres., F. K. Rice; treas., W. F. Porter.

NEW YORK PLANT NOTES.

Asparagus deflexus is regarded by some observant growers as a coming formidable rival for A. Sprengerii in cut sprays.

One result of the prevalent scarcity and high prices of flowers during the month of January has been an increased steady demand for blooming plants. All azaleas are quickly disposed of as soon as flowers can be opened, and hyacinths, tulips, crocuses and other bulbous material have profited in a similar manner. The leading florist stores are gay at present with forced spring flowering shrubbery. Prunuses, forsythias, pyruses, lilacs, etc., are very effective in the windows, and although quite expensive, are a welcome alternative under the conditions of scarcity existing in the flower and plant market.

TREES and SHRUBS

FINE SPECIMEN CONIFERS

Iron-Clad Hardy Named and Maximum Rhododendrons

IN CAR LOTS A SPECIALTY

Roses, Vines, Fruit Trees, Etc.

.... Send Lists for Quotation

Illustrated Catalogue sent on Receipt of 4 cents Postage

FRED'K W. KELSEY

150 Broadway, - NEW YORK

Special offer

AMARYLLIS

Choicest Hybrids in brilliant and soft coloring, from white to blush pink to deep maroon, striped, feathered, etc. Strong Bulbs, each 60c., per dozen \$5.

Begonias , Tuberous	Doz.	100
Single in 6 separate colors	40c	\$2.50
mixed	"	35c
Double in 5 separate	"	60c
mixed	"	55c
Gloxinias , in 6 separate	"	60c
mixed	"	50c
		3.50

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SEITARO ARAI

Yokohama, Japan

Wholesale Grower of High Class Japan Bulbs, Nursery Stock, Bamboo Canes, etc.

RALPH M. WARD & CO.

Sole Representatives in U. S. and Canada

12 West Broadway, New York

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SHASTA DAISIES

ALASKA, CALIFORNIA, WESTRALIA

Strong, field-grown divisions, true to name, \$2.50 per 100 Express paid for cash with order.

The Leedham Bulb Co., Santa Cruz Cal.

SPECIMEN NURSERY STOCK

Deciduous Trees and Shrubs, Evergreens, Rhododendrons, Azaleas, over one hundred (100) acres of the choicest varieties.

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Queens, Long Island, - New York

PURE UNLEACHED HARDWOOD ASHES

Nature's plant food. The best fertilizer to build up the land. You get the best in the Joynt brand.

Write for prices to
JOHN JOYNT, Lucknow, Ontario, Canada.

VICTORY HAS MADE GOOD

Place your orders early for rooted cuttings. Prices \$6 per 100, \$50.00 per 1000. DISCOUNT FOR CASH WITH ORDER

CUTTMAN & WEBER
The Wholesale Florist
of New York
43 W. 28 St.,
Grewer
Lynbrook, L. I., N. Y.

ROSES

STRONG DORMANT PLANTS

American Beauty, Clothilde Soupert, Glorie de Dijon, Kaiserin Augusta Victoria, La France, Mad. Caroline Testout, Frau Karl Druschki, Crimson Rambler, Baby Rambler, Dorothy Perkins, etc., etc., SUITABLE FOR FORCING.

Immediate Delivery. Prices Right.

General Catalog and Price Lists ready.

BAY STATE NURSERIES,

North Abington, Mass.

LADY GAY

AND

HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

Catalogue mailed on request.

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ROSE SPECIALIST

WOODS HOLE, MASS.

GRAFTED ROSES

ON DICKSON'S IRISH MANETTI

We are now booking orders for March delivery.

KAISERIN, BRIDE, BRIDESMAID, KILLARNEY & RICHMOND; \$120 per thousand

Order Now.

ROBERT SCOTT & SON

SHARON HILL, DEL. CO., PA.

Beautiful New Pink Rose

AUROMA

See announcement and full description in "Horticulture," December 8 issue.

PAUL NIEHOFF, Leighton, Penn.

You'll find something worth reading on every page of this paper.

GOVERNOR HERRICK THE NEW VIOLET

Originated and introduced by

H. R. CARLTON, Willoughby, O.

We have the following stock in the finest condition to plant and now is the time to plant:

2 1/2 inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000
4 " " 2.50 " " 12 " 100 " 75 " 1000

It will pay you. Try it. Order at once.

BEGONIA VERNON

EXTRA FINE STRAIN

TRADE PKT. 25c.

Wm. Elliott & Sons
201 Fulton St., NEW YORK

JAPANESE
THE YOKOHAMA NURSERY CO.
31 BARCLAY STR. NEW YORK.
LILIES
PLANTS
BAMBOO STAKES

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The Wholesale Florist
of New York
43 W. 28 St.,

Grewer
Lynbrook, L. I., N. Y.

GERANIUM

Wholesale catalogue and price list contains descriptions of seventy-five of the best standard sorts and 100 imported novelties, sent free to trade only.

R. VINCENT, Jr. & SON
WHITE MARSH, MD.

Azaleas for Easter

From 50c. to \$5 in all colors

Also a fine lot of Palms in all sizes, such as Kentias, Arecas, Latanias, Phoenix and Cocos. Pandanus Veitchii and utilis, Crotons, Dracaenas, Nepe trees, Aralias, Araucarias, Aspidistras, Ferns suitable for dshes, in leading varieties. Cibotium Schiedel from \$1.00 to \$3.00 each.

Wholesale Price List on application.

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Importers and Exporters. Growers and Dealers,
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BOSTON, MASS.

ROOTED CUTTINGS OF Kaiserin, President Carnot and La Detroit

Strong, healthy, well-rooted cuttings, ready Dec. 1st; price \$2.50 per hundred or \$20.00 per thousand.

Try our strong, healthy, western grown wood from the best corn soil in Illinois.

BASSETT & WASHBURN
HINSDALE, ILLS.

—ORCHIDS—

Some of the varieties we shall import this spring: Citeyas, Trianae, Labiata, Mossiae, Me delhi, Speciosissima, Giga, Schroederiae, Dendrobium Noile, Wardum, Phalaenopsis, Vandas Cerebra, Kimballiana, Oncidium Varicosum, Lachis Anceps, Automealis, Albida. Write for prices on above.

CAPRILO & BALDWIN, SECAUCUS, N. J.

ORCHIDS Importations, 1907
Save money and get our quotations on Cattleya labiata, Trianae, Percivaliana, Mossiae, Mendelli, Schroederiae.

JULIUS ROEHRS CO.
Largest Orchid growers and importers in U. S.
RUTHERFORD, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

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and 235 Broadway, Room 1
NEW YORK CITY

ORCHIDS

Arrived in exceptionally fine condition the following ORCHIDS: LAELIA PURPURATA, CATTLEYA HARRISONIAE, C. INTERMEDIA, C. TRIANA, C. LEOPOLDII and many more.

Write for Prices

LAGER & HURRELL, SUMMIT, N. J.

ORCHIDS Direct from the Collectors
For Spring and Summer Delivery

We are giving quotations upon our entire list of South American, Philippine and East Indian Orchids. Choicest varieties of Cattleyas, Odontoglossums, Pilmuna, Cyrtopodum, Phalaenopsis, Dendrobium and Vandas. Among them the very rare Vanda Sanderiana for delivery June or July.

A. HELD, 11-19 William St., New York

Asparagus Robustus

The best of all Asparagus for a pot plant, strong three inch stock at

\$6.00 per 100, \$50.00 per 1000

ALBERT M. HERR, Lancaster, Pa.

ARAUCARIA COMPACTA ROBUSTA, have only fine plants: 6 to 7 in. pots, 20 to 30 in. high, 4 to 5 years old, 3, 4, 5 tiers, \$1.50, \$1.75, \$2.00 each.

A. EXCELSA GLAUCA, 6 in., \$1.00, \$1.25; 7 in. specimens, finest in the world, \$2, \$2.50, \$3 each.

KENTIA FORSTERIANA, 6 in., 25 to 40 in. high, 75c, \$1, \$1.25 each; 7 in., made up, \$1.75, \$2 each.

SCOTTI FERN, 8 in., as big as a washtub, \$1.25, \$1.50, worth \$3; 5 1/2 in., 40c.; 6 in., 50c.

BOSTON FERNS, 6 in., 50c.

Cash with order. Goods travel at purchaser's risk.

CODFREY ASCHMANN,

Wholesale Grower and Importer of Pot Plants

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WHITMANI

2 1-4 inch, \$10 per 100

BOSTONS

2 1-4 inch, \$3.00 per 100

H. H. BARROWS & SON Whitman, Mass.

You'll find something worth reading on every page of this paper.

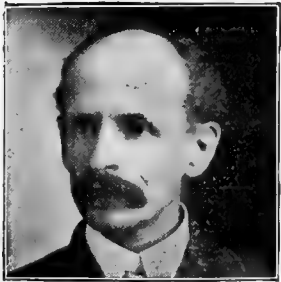
Nephrolepis Whitmanii, strong plants from 2 1/2 in. pots, \$10.00 per hundred.

Nephrolepis Elegantissima, 2 1/2 in. pots, \$5.00 per hundred.

P. R. QUINLAN,
SYRACUSE, N. Y.

FINEST BULBS, NURSERY STOCK, PALMS, AZALEAS, BAYS, ROSES, BUXUS, EVERGREENS, and LILY OF THE VALLEY "EXCELLENTA" and "SUPERIOR."

JOHN SCHEEPERS & CO., New York City



CALDWELL THE WOODSMAN,
Introducer of the Wild Smilax.

Wild Smilax, \$2.50 per case.

THE ONLY PLACE WHERE YOU CAN ALWAYS GET IT.

Long Needle Pines, \$1.00 per dozen. Palm Crowns, \$2.50 per dozen. Extra nice long-stemmed Palm Leaves, \$2.50 per 100. Magnolia, \$2.50 per case, 16 cubic feet. Sheet Moss, \$2.00 per sack. Grey Moss, \$2.00 per sack. Galax, \$1.00 per 1000.

Speed a Specialty.

Write for Catalogue.

Caldwell the Woodsman Decorating Co., Inc., EVERGREEN, ALA.

ROSES

VIOLETS

GARDENIAS

CARNATIONS

VALLEY

AND ALL OTHER CHOICE FLOWERS

In our **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition to our regular wholesale EVERGREENS and FLORISTS' SUPPLIES

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. **Boston, Mass.**
and 9 Chapman Place,

See our Greens Advertisement on page 177.

L. D. Telephone, Main 2618.

NEWS NOTES.

E. H. Smith of Hazelton, Pa., has opened a branch store next to the Central Hotel.

Visitors in New York the past week included R. O. King, Toronto; J. A. Valentine, Denver, Colo.; H. L. Janzen, Berlin, Ont.

One of Adolph Fahrenwold's large greenhouses, 50x300 feet, collapsed at Roslyn, Pa., on Tuesday last, under the weight of thirteen inches of snow.

The Lockland Lumber Company announces that it has practically discontinued the greenhouse material business which it has carried on for many years.

S. S. Peckham sold at public auction on January 29 the stock and fixtures in his store at 8 South 6th street, New Bedford, Mass. He intends to continue business in the wholesale line at Fairhaven.

The Detroit Floral Co. was a great loser from the heavy windstorm one week ago. Many lights of glass and ventilators were broken and it was only with the greatest exertion that Jack Frost was kept out.

The almost unprecedented spells of cloudy weather have had a very depressing effect on the growers of Madison, N. J., and vicinity. Everybody complains. Many of the small growers, if not driven out of business, will be great sufferers.

Rudolph Riber, "the original rubber plant man," who sold bogus rubber tree seeds to Harlem housewives, was recently, in Special Sessions, sent to the penitentiary for eleven months, and sentenced to a \$500 fine, or serve one extra day for each dollar.

John A. Newby of Logansport, Ind., suffered serious loss from water which

drained into his cellars and extinguished the fires in the boilers. Sixteen stoves have been set up for heating purposes. It is said that Mr. Newby may bring suit against the city or parties responsible for damages.

The Michigan Cut-Flower Exchange has elected officers for the ensuing year as follows: Philip Breitmeyer, president; William Dilger, first vice-president; Fred. Breitmeyer, second vice-president; Robt. M. Rahaley, secretary and treasurer. The first three each hold 300 and R. M. Rahaley 100 shares. Total capitalization \$10,000—all paid in.

Mrs. Pierson, mother of F. R. Pierson of Tarrytown, 78 years of age, stumbled and fell, breaking her shoulder, on Sunday, February 3. Mr. Pierson's father died about four months ago, and his brother-in-law six weeks later. "Misfortunes never come singly" is an old saying which we are sorry to see apparently verified in this instance.

The United States Cut Flower Co., of Elmira, N. Y., at the directors' meeting on January 30, decided to increase the capacity of their plant one-half and to commence at the earliest possible moment the erection of 18 new houses, at an estimated cost of \$25,000. This will give them 150,000 feet of glass. The company began business in 1906 with capital stock of \$600,000. Wm. R. Compton is president and general manager.

FIRE RECORD.

Chas. L. Schmidt was a victim of the \$1,000,000 fire which visited Harrisburg, Pa., last week.

The boiler and entire heating plant in the greenhouse of John Baker, Grand Rapids, Mich., were destroyed by fire on January 27. Loss about \$1,500.

MOVEMENTS OF GARDENERS.

William Kiesling, lately in charge of Chas. B. Ward's place, Morris Plains, N. J., takes charge on April 1st of E. B. Thomas' estate on Mt. Vernon road, Morristown, N. J.

Charles Duncan, who has had charge of the greenhouses at Wheatleigh, the Henry H. Cook estate, Lenox, Mass., has resigned his position and will be succeeded by Jas. Kiley.

Richard Vince, head gardener to Robt. D. Foote of Morristown, N. J., has resigned his position. His employer tried to induce him to continue on, but without avail. He is succeeded by Paul Hunt, recently with Samuel Untermeyer of Yonkers, N. Y. Mr. Vince is president of the Morris Co. Gardeners' and Florists' Society, and will be greatly missed.

Carl Engberg of Fremont, Neb., died on January 27, aged 60 years.

G. W. Rogers, a well-known exporter of lily bulbs, died at Yokohama, Japan, on December 25.

William Dobson, 88 years of age and active until last month, has been the gardener at Mills College for young ladies, near San Francisco, for more than a quarter century. He contracted pneumonia which caused his death at the college last week, and here, where he grew old tending the beautiful gardens and caring for the fruit trees, his body was interred, after funeral services held in the college chapel. To many growers and florists about the bay he was an instructive companion, and a goodly number of these attended the obsequies Sunday, January 27.

Oscar Carlson, of Minneapolis, Minn., has received word of the death of his brother in Seattle from a shot wound.

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for Samples.

E. A. BEAVEN, Evergreen, Ala.

PHILADELPHIA NOTES.

S. S. Pennock has had just one half-day off on account of sickness in the last twenty years.

Ralph E. Faust of Pennock's has been laid up for the past week threatened with typhoid.

Horace Dumont has accepted a responsible post in the D. B. Martin Co. organization and will dispose of his commission business at 1305 Filbert street.

They are threatening to shut down all the glass works. Mean it, too. Money in it. This is not the summer shut-down. Spring also. Incredible? All right, wait and see.

The store of Dumont & Co. at 1305 Filbert street, Philadelphia, suffered severely from a fire on Monday night. Damage about \$500; no insurance. Origin apparently from the bottom having fallen out of the store heater.

L. K. Peacock, Atco, N. J., had his dwelling house burned last week. The same was almost a total loss and included a valuable stock of dahlia roots in the cellar. Whom the gods love they punish, and disaster follows on disaster. Enough! let's see what we can do to help a sorely tried brother.

They say the editor of HORTICULTURE handed them a Lemon in last week's frontispiece. A good wholesome lemon, ripe, juicy and corrective of all prejudices, cooling to the nerves, stimulative to the faculties, and grateful to the thinking man. The American Carnation Society always have been surprisingly clever in picking out the right man. Fred. Lemon is really a peach—and everything else necessary for a pink lemonade!

BUSINESS CHANGES.

Mrs. M. L. Stevens has bought the retail business of S. L. Harper, 912 C St., Tacoma, Wash.

J. B. Halley, a long-time florist of Lawrence, Mass., has entered the employ of J. J. McManmon of Lowell.

Frank Austin is making arrangements to open in the florist business at Way Cross, Ga. He was formerly with A. C. Oelschig in Savannah.

The Wm. Roethke Floral Co., opened their new store at 200 Michigan avenue, Saginaw, Mich., on January 26. This will be made the business headquarters of the company.

Send orders for flowers for delivery in

BOSTON and all NEW ENGLAND POINTS to
THOS. F. CALVIN
124 Tremont St., Boston

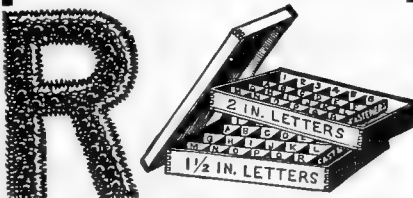
The Park Floral Co.

J. A. VALENTINE
Pres.

DENVER, COLORADO

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1½ or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. McCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

JOHN BREITMEYER'S SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada

P. J. HAUSWIRTH

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Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO
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FRED C. WEBER FLORIST

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Established 1873
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KANSAS CITY, - MO.
will carefully execute orders for Kansas City and any town in Missouri or Kansas.

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this Week?

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Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

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ALEX. McCONNELL

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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

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D. C.

GUDE'S

Geo. H. Cooke FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

William J. Smyth FLORIST

Cor. Michigan Ave. and 31st St., CHICAGO

We ship to all points in Illinois and Iowa.

Phones: Douglas 744, Douglas 523, Douglas 740

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Flowers or Design Work

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TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N. Y.

Theodore Miller FLORIST

Long Distance Phones: Bell, Forest 56; Kinloch, Delmar
4832 Delmar Boul. ST. LOUIS, MO

Store open from 7 A. M. to 8 P. M.

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S. S. PENNOCK-MEEHAN CO.
THE WHOLESALE FLORISTS OF PHILADELPHIA
 1608-1618 LUDLOW ST. Store closes 8 p.m.

THE WHOLESALE FLORISTS OF PHILADELPHIA
1608-1618 LUDLOW ST. Store closes 8 p.m.

226 Devonshire St , BOSTON, MASS.

1221 Filbert St., PHILADELPHIA

**Largest Wholesale House Between
New York and Chicago.**

A. L. RANDALL CO., 19-21 Randolph St.
CHICAGO.

45-47-49 WABASH AVE., - - CHICAGO

Telephone, Main 58

PHILADELPHIA, PA.

**Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers**

EDWARD REID, Florist
1526 RANSTEAD STREET, PHILADELPHIA
Store Closes 8 P. M.

51 Wabash Av., Chicago, Ill.
In writing advertisers, mention **Horticulture**

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		ST. LOUIS		PHILA.		BOSTON	
	February 4				February 4		February 7	
ROSES								
Am. Beauty, Fan. & Sp.	40.00	to 50.00	.....	to	75.00	to 80.00	75.00	to 100.00
" Extra.....	25.00	to 30.00	.....	to	50.00	to 60.00	50.00	to 60.00
" No. 1.....	12.00	to 15.00	.....	to	25.00	to 35.00	20.00	to 25.00
" Lower grades.....	8.00	to 10.00	.....	to	5.00	to 12.00	8.00	to 12.00
Bride, 'Maid, Golden Gate, F. & S.	12.00	to 15.00	.....	to	5.00	to 20.00	12.00	to 15.00
" " " " No. 1 & Ex.	8.00	to 10.00	.....	to	12.00	to 15.00	8.00	to 10.00
" " " " low grades.....	6.00	to 8.00	.....	to	6.00	to 10.00	4.00	to 8.00
Liberty, Richmond, Fan. & Sp.	12.00	to 15.00	.....	to	40.00	to 50.00	20.00	to 35.00
" Lower grades.....	6.00	to 8.00	.....	to	5.00	to 25.00	6.00	to 12.00
Chatenay, Morgan, Fan. & Sp.	12.00	to 15.00	.....	to	12.00	to 20.00	12.00	to 15.00
" Lower grades.....	6.00	to 8.00	.....	to	6.00	to 10.00	6.00	to 8.00
Killarney, Wellesley, Fan. & Sp.	15.00	to 20.00	.....	to	15.00	to 20.00	12.00	to 15.00
" Lower grades.....	8.00	to 12.00	.....	to	6.00	to 12.00	6.00	to 8.00
CARNATIONS								
Fancy	4.00	to 5.00	.....	to	5.00	to 8.00	4.00	to 6.00
Ordinary..... ..	.....	to 3.00	.....	to	2.00	to 4.00	2.00	to 3.00
MISCELLANEOUS								
Violets, Double..... ..	.....	to 1.00	.....	to .....	.75	to 1.25	.50	to .75
" Single..... ..	.....	to .75	.....	to .....	.25	to .75	.50	to .75
Paper White Nar., Roman Hy.....	3.00	to 4.00	.....	to	3.00	to 4.00	2.00	to 2.50
Tulips, Daffodils..... ..	3.00	to 5.00	.....	to	3.00	to 4.00	2.00	to 3.00
Cattleyas..... ..	40.00	to 60.00	.....	to	40.00	to 60.00	35.00	to 50.00
Lilies, Callas..... ..	20.00	to 25.00	.....	to	12.00	to 20.00	10.00	to 12.00
Freesia..... ..	4.00	to 6.00	.....	to	2.00	to 5.00	1.00	to 2.00
Gardenias..... ..	.....	to 50.00	.....	to	35.00	to 50.00	.....	to 50.00
Lily of the Valley..... ..	3.00	to 4.00	.....	to	2.00	to 5.00	2.00	to 4.00
Mignonette..... ..	4.00	to 8.00	.....	to	2.00	to 6.00	1.00	to 2.00
Adiantum..... ..	1.00	to 2.00	.....	to	1.00	to 1.50	1.00	to 1.50
Smilax..... ..	12.00	to 15.00	.....	to	15.00	to	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	.....	to	50.00	to 75.00	.....	to 50.00
" " & Sprenger bunches.....	35.00	to 50.00	.....	to	35.00	to 50.00	35.00	to 50.00

35-37 Randolph St., - CHICAGO, ILL.

11 29 Arch St., Philadelphia

Patronize our Advertisers, they will treat you right

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To the needs of the up-to-date Florist Store. The latest styles in every line of goods are in our stock.

Our Tone Ware Vases and Bowls, in Pompeian Designs, are Unequalled for Rich Effect

We have a special CHIFFON in exact floral tints

It is not the cheapest but the best ever offered to the florist trade. Our list includes everything in ornamental and useful goods for florists' use. Send for latest illustrated catalogue.

H. BAYERSDORFER & CO., 1129 Arch St., Philadelphia, Pa.

CUT FLOWER MARKET REPORTS

BOSTON Roses are still in short supply, but there is a promise of summer skies and the famine will undoubtedly soon come to an end. Carnations are in better supply, but not enough yet to change market quotations; they are not in as good order as usual, being soft and rather short-lived and many flowers are split—a condition easily accounted for by the prolonged dark weather. There is a nice assortment of tulips and other bulb stock now available, daffodils showing a tendency to overstock and consequent disposition toward lower values. Violets continue to arrive in large quantities. Business has been fairly brisk all along the line.

BUFFALO Continued cold weather and scarcity of stock still prevailed the past week. Flowers of all kinds were on a move the minute they arrived. Roses are still a scarce article and very few are to be had. Floral work has been much in evidence and has cleaned the market up pretty well daily. Tulips, narcissi, daffodils, etc., are coming in more plentiful, but seem to find a ready sale. Some very good Trumpet Major, La Reine and Double Von Sion are to be seen. Freesia is in good supply and of good quality. Lilies have also been in good demand but short in supply, prices holding well. The supply on carnations was somewhat short, although enough to go around. The light colors, especially white, were most in demand and prices holding firm. Lily of the valley and other stock sold well. Green goods in fair supply and demand better.

CINCINNATI Business seems fairly brisk but cut flowers are very scarce in this market. Carnations are blooming all right but the demand far exceeds the supply. This is due chiefly to the scarcity of roses which are off crop. The past month has been a hard one on roses and it will be several weeks before they are plentiful again. In bulbous stock daffodils and tulips are helping out some, but Roman hyacinths and narcissi move slowly. The latter will not sell as a cut flower and if used for funeral work they are wanted at job lot prices. Lily of the valley is scarce and in demand. Callas are at a standstill, while a few Harrisii lilies are coming in

but of poor quality. Prices are firm on everything and while stock is bringing all that it is worth it is not bringing what it costs to produce; consequently the condition of the market is far from being satisfactory.

COLUMBUS The business of the past week has been fine; everybody has been busy and the trouble has been to obtain good stock in sufficient quantity. Never was there a time when everything was cut so close. We are certainly having a splendid demand and at good prices. As regards prices there has been little change either at wholesale or retail.

INDIANAPOLIS Trade the past week has been unsettled, one day good and next day slow. The weather has been more favorable for flowers for the week but not long enough to noticeably affect the market. Roses, particularly American Beauties, continue very scarce. Carnations are exceptionally fine and plentiful. Considerable lilac is seen and sells well. Bulbous stock of all kinds is to be had in any quantity and finds ready sale. Abundance of fine lily of the valley is seen but it meets with slow sale. There is a good call for callas and Easter lilies but the supply is only moderate. In green goods and galax leaves there is a good supply all along the line.

LOUISVILLE Business conditions the previous week very satisfactory, and stock generally was obtainable in adequate quantities. Carnations were in good supply and found ready demand. Roses were somewhat scarce and were quickly disposed of. Violets, lily of the valley, narcissi, hyacinths, etc., sell well and can be had in abundance.

NEW YORK This market still feels the pinch of scarcity in roses and to somewhat lesser extent in carnations. Bulbous flowers are finding a better market than usual on account of the short supply and high prices of other things. The demand is brisk and no sooner is good stock received at the wholesale marts than it is absorbed. The Greek trade has been forced into the background for the time being by the, to them, prohibitive prices. Violets do not move with the alacrity which the circumstances would appear to warrant, and comparatively low figures

are accepted to clear out the surplus. In general the season thus far is not regarded by growers, commission dealers or retailers as a notable success.

PHILADELPHIA The feature of last week's market here was the scarcity of good roses—especially good whites—and, to nearly the same extent, good American Beauties. While carnations were more plentiful the demand kept fully abreast and there was no surplus. We have seldom seen finer white lilac than is coming in at present, while of the ordinary grades there is also plenty. Lily of the valley has recovered from the little slump of last week and is now moving nicely. Violets, both single and double, are in healthier condition, the growers apparently getting their stock into shape for the St. Valentine spurt. Cattleyas were down low, but have now recovered going readily again at good figures. Cypridiums keep very steady and are of extra quality. Tulips, daffodils, daisies, mignonette, myosotis and snapdragon are welcome and seasonable. Still some bouvardia around. Easter lilies plentiful and in demand.

CUT FLOWER MARKET NOTES.

The Twin Cities report 30 below zero, snowdrifts and slow trade. Agents selling nursery stock are snowed in, for country roads have drifts 10 to 15 feet deep.

Reports from Detroit are that the demand exceeds the supply by far; in particular is the shortage of roses felt very much. Carnations and bulbous material are coming in plentifully but yet not enough to supply the demand.

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	Last Half of Week ending Feb. 2 1907	First Half of Week beginning Feb. 4 1907		Last Half of Week ending Feb. 2, 1907	First Half of Week beginning Feb. 4 1907
Roses			Carnations, Ordinary	2.00 to 4.00	3.00 to 5.00
Am. Beauty, fan and sp.	50.00 to 75.00	50.00 to 75.00	Violets, double	.50 to .75	.50 to 1.00
" extra	25.00 to 30.00	25.00 to 35.00	" single	.35 to .75	.35 to .75
" No. 1	15.00 to 20.00	15.00 to 20.00	Paper White Nar., Roman Hy.	3.00 to 3.00	2.00 to 3.00
" Lower grades	3.00 to 8.00	2.00 to 10.00	Tulips, Daffodils	3.00 to 6.00	3.00 to 6.00
Bride, 'Maid, Golden Gate, fan & sp	12.00 to 20.00	15.00 to 20.00	Cattleyas	30.00 to 50.00	25.00 to 50.00
" " " " No. 1 & Ex.	8.00 to 12.00	8.00 to 12.00	Lilies, Callas	16.00 to 25.00	16.00 to 25.00
" " " " low grades	4.00 to 6.00	5.00 to 6.00	Freesia	1.00 to 3.00	..... to 2.00
Liberty, Richmond, fancy & special	20.00 to 35.00	20.00 to 50.00	Gardenias	20.00 to 35.00	20.00 to 35.00
" lower grades	4.00 to 12.00	3.00 to 12.00	Lily of the Valley	2.00 to 3.00	2.00 to 3.00
Chatenay, Morgan, fancy and spec.	12.00 to 20.00	15.00 to 20.00	Alphonette	4.00 to 12.00	4.00 to 12.00
" lower grades	4.00 to 8.00	3.00 to 10.00	Adiantum	.50 to .75	.50 to .75
Killarney, Wellesley, fan. and spec.	12.00 to 20.00	15.00 to 20.00	Smilax	12.00 to 15.00	12.00 to 16.00
" lower grades	4.00 to 8.00	3.00 to 10.00	Asparagus Plumosus, strings	25.00 to 35.00	25.00 to 35.00
Carnations, Fancy	6.00 to 10.00	5.00 to 10.00	" " & Sprenger, bunches	15.00 to 25.00	15.00 to 35.00

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Green Leucothoe Sprays, \$2.50 per 1000
Bronze Rhododendron Sprays, \$5.00 per 1000
Rhododendron Sprays, \$3.00 per 1000
Kalmia or Mountain Laurel, \$3.00 per 1000
Also Rhododendron Plants which will grow,
10 to 15 inches, 10c. each; 20 to 25 inches, 15c.;
30 to 40 inches, 25c.; 50 to 60 inches, 40c. Dis-
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	CINCINNATI February 5	DETROIT January 29	BUFFALO February 4	PITTSBURG February 5
ROSES				
Am. Beauty, Fan, and Sp.....	..... to .....	..... to	50.00 to 70.00	50.00 to 70.00
" Extra	40.00 to 50.00	35.00 to 50.00	35.00 to 45.00	30.00 to 40.00
" No. 1	30.00 to 35.00	20.00 to 30.00	18.00 to 25.00	10.00 to 15.00
" Lower grades	10.00 to 20.00	10.00 to 15.00	..... to .....	..... to 6.00
Bride, 'Maid, Golden Gate, F. & S.	8.00 to 10.00	8.00 to 12.00	12.00 to 15.00	15.00 to 18.00
" " " " No. 1 & Ex.	6.00 to 8.00	6.00 to 8.00	10.00 to 12.00	8.00 to 13.00
" " " " low grades	3.00 to 4.00	5.00 to 6.00	4.00 to 10.00	4.00 to 6.00
Liberty, Richmond, Fan, & Sp....	8.00 to 10.00	8.00 to 12.00	10.00 to 20.00	15.00 to 20.00
" Lower grades	4.00 to 6.00	6.00 to 8.00	5.00 to 10.00	6.00 to 12.00
Chatenay, Morgan, Fan, & Sp....	8.00 to 10.00	8.00 to 12.00	10.00 to 15.00	12.00 to 18.00
" Lower grades	4.00 to 6.00	6.00 to 8.00	5.00 to 15.00	6.00 to 10.00
Killarney, Wellesley, Fan, & Sp..	8.00 to 12.00	8.00 to 12.00	..... to	12.00 to 18.00
" Lower grades	6.00 to 10.00	6.00 to 8.00	..... to	6.00 to 10.00
CARNATIONS				
Fancy and Novelties	3.00 to 5.00	3.00 to 5.00	4.00 to 5.00	4.00 to 6.00
Ordinary	1.50 to 2.00	1.50 to 3.00	2.00 to 3.00	2.00 to 3.00
MISCELLANEOUS				
Violets, Double .....	.75 to 1.50	1.50 to 2.00	.75 to 1.25	.75 to 1.25
" Single .....	.75 to 1.50	1.00 to 1.50	.50 to 1.00	..... to .50
Paper White Nar., Roman Hy.....	..... to 3.00	3.00 to 4.00	2.00 to 3.00	3.00 to
Tulips, Daffodils	3.00 to 4.00	4.00 to 6.00	3.00 to 4.00	2.00 to 4.00
Cattleyas	35.00 to 50.00	5.00 to .....	..... to .....	..... to
Lilies, Callas	12.00 to 15.00	20.00 to 25.00	5.00 to 20.00	15.00 to 20.00
Freesia	2.00 to 3.00	4.00 to	2.00 to 4.00	3.00 to 4.00
Gardenias	25.00 to 50.00	35.00 to .....	..... to .....	..... to
Lily of the Valley	3.00 to 4.00	4.00 to	3.00 to 4.00	3.00 to 4.00
Mignonette	2.00 to 4.00	10.00 to 15.00	3.00 to 5.00	3.00 to 5.00
Adiantum .....	..... to 1.00	1.00 to 1.50	.50 to 1.00	1.00 to 1.25
Smilax	12.00 to 15.00	15.00 to 20.00	12.00 to 15.00	12.50 to 15.00
Asparagus Plumosus, strings.....	40.00 to 50.00	50.00 to	40.00 to 50.00	35.00 to 50.00
" & Sprengeri, bunches to 25.00	30.00 to 40.00	25.00 to 30.00	25.00 to 50.00

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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ARAUCARIAS.

Godfrey Aschmann,
1012 Ontario St., Philadelphia.
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A. Leuthy & Co., Roslindale, Mass.
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P. O. Box 304-D.
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Asparagus Robustus.
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Rickards Bros., 37 East 19th St., New York.
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Johnson Seed Co., 217 Market St., Phila.
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John Scheepers & Co., 2-6 Old Slip, N. Y.
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Carnations Aristocrat, White Perfection and Red Riding Hood.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Carnations, Winsor, White Enchantress, Helen M. Gould.
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J. W. Howard, Somerville, Mass.
Carnation Debutante.
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A. J. Guttman, 43 W. 28th St., New York.
John E. Haines, Bethlehem, Pa.
Carnation Imperial and Pink Imperial.
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F. Dorner & Sons Co., Lafayette, Ind.
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Guttman & Weber, 43 W. 28th St., N. Y.
Carnation Victory.
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H. A. Stevens Co., Dedham, Mass.
Rooted Cuttings.
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A. W. Williams, Highland, N. Y.
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Peter Fisher, Ells, Mass.
Cottage Gardens Co., Queens, N. Y.
Carnation Beacon.
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N. Y. Cut Flower Co., 55-57 W. 26th St., New York. J. A. Millang, Mgr.
Carnation Winsor Blooms.
For page see List of Advertisers.

R. Engelman & Son, Pittsfield, Mass.
Send for list of rooted cuttings of new and leading commercial varieties of carnations and chrysanthemums. Wm. Swayne, Kennett Square, Pa.

Carnations, All rooted cuttings. These prices for January delivery. Per 1000: Enchantress\$50 B. Market\$15 Bountiful 25 Lawson 15 Cardinal 25 Harlowarden ... 15 100 at same rate. Cash with order. Smith & Gannett, Geneva, N. Y.

We can furnish several thousand unrooted cuttings of Fair Maid and Queen Louise for immediate delivery at \$6.00 and \$5.00 per thousand. Cohanzle Carnation Greenhouses, New London, Conn.

Healthy rooted carnation cuttings. Queen Louise, Hill, Gomez, Norway, Boston Market, \$9.00 per 1000. Melody, \$5.00 per 100. Red Lawson, \$15.00 per 100. Lawson, Harlowarden, Mrs. Nelson, \$12.50 per 1000. White Cloud unrooted, \$4.00 per 1000. Wm. Ehmann, Corfu, N. Y.

CHRYSANTHEMUMS.

Eggeling Floral Co., 1653 S. Grand Ave., St. Louis, Mo.
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Charles H. Totty, Madison, N. J.
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?
Is Your Name In The Above
List? If Not, Why Not?
?

CHRYSANTHEMUMS—Continued.

Chrysanthemums. Jeanne Nonin, C. Touset, Mrs. Brice, Roi d'Italie, Fred Lemon, Merza, Cobboid, M. Ware, Oct. Sunshine, Beauty of Sussex, \$2.00 per 100. Glory Pacific, Kalb, Monrovia, Polly Rose, Alliance, Mrs. Robinson, J. Shrimpton, Bride, Bonnafon, Halliday, Duckham, Cullingford, Mrs. Chamberlain, Arline, Erneld, W. Bonnafon, Princess, M. Friend, Nellie Pickett, Lincoln, W. Jones, G. Wedding, Ben Wells, Yellow Eaton, Enguehard, Mrs. Weeks, Appleton, G. Trophy, Florence Teal, A. Balfour, Intensity, Mme. Perrin, \$1.50 per 100; \$12.50 per 1000. Wm. Ehmann, Corfu, N. Y.

CLEMATIS.

Clematis Paniculata. Strong field-grown plants, \$15.00 per 100; strongest, \$30 per 100. Quotations on larger quantities. Est. David Fisher, Woburn, Mass.

CONIFERS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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CUT FLOWER BOXES.

Folding cut flower boxes, the best made Write for list. Holton & Hunkel Co., Milwaukee, Wis.

Weich Bros., 228 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia
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DAHLIAS.

David Herbert & Son, Atco, N. J.
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W. P. Lothrop, Brockton Dahlia Farm, E. Bridgewater, Mass.
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J. K. Alexander, E. Bridgewater, Mass.
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DECORATIVE PLANTS.

A. Leuthy & Co., Roslindale, Mass.
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Julius Hoehrs, Rutherford, N. J.
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DRACAENAS.

Dracaena terminalis from bench, fine \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

FERNS.

A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass. Nephrolepis Whitman.
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H. N. Eaton, So. Sudbury, Mass. Boston Ferns.
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P. R. Quinlan, Syracuse, N. Y. Nephrolepis Whitmanii and Elegantisima.
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FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' FERTILIZER.

Pulverized Manure Co., 31 Union Stock Yards, Chicago. Sheep Manure, Wizard Brand.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.

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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.

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FLORISTS' SUPPLIES.

N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

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M. M. Robinson & Co., 8-11 Province St., Boston, Mass.

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The Kervan Co., 20 W. 27th St., N. Y. Decorative Evergreens.

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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.

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FLORISTS' SUPPLIES—Continued.

J. Stern & Co., 125 No. 10th St., Phila.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

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FLORISTS' WAGONS.

Edward Higgins, 1 W. 28th St., N. Y.
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FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
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Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.

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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.

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Thos. Young, Jr., 41 W. 28th St., New York.
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Eyles, 11 N. Pearl St., Albany, N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.

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Samuel Murray, 1017 Broadway, Kansas City, Mo.

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Young & Nugent, 42 W. 28th St., New York.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.

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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.

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William J. Smyth, Michigan Av. & 31st St., Chicago.

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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.

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Thos. F. Galvin, 124 Tremont St., Boston.
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FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.

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A. H. Hews & Co., Cambridge, Mass.
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Hilinger Bros., Ft. Edward, N. Y.
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Syracuse Red Pots.
Syracuse Pottery Co., Syracuse, N. Y.

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FORCING PLANTS.

Bobbink & Atkins, Rutherford, N. J.

GALAX.

H. M. Robinson & Co., 8-11 Province St., Boston.

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Michigan Cut Flower Co., Detroit.
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Caldwell the Woodsman Decorating Co., Evergreen, Ala.

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J. N. Pritchard, Elk Park, N. C.
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Bronze and green galax. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

Galax leaves, leucothoe sprays, dagger and fancy ferns, green and bronze. Write F. W. Richards & Co., Banner Elk, N. C.

GERANIUMS.

R. Vincent, Jr. & Son, White Marsh, Md.
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GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin, N. Y.

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Gladich. C. Betscher, Canal Dover, O.

Groff's hybrids, good blooming size, \$8.00; small blooming size, \$5.00 per 1000. Bulb-lets, \$2.00 per peck, \$5.00 per bushel. E. R. Macomber, 20 Leonard St., Portland, Me.

GLASS.

Boston Plate & Window Glass Co., Boston.
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Peerless GLASS REPAIR CLAMP; you need them—100 for \$1.00. A. Klokner, Wauwatosa, Wis.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square, New York.

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Hitchings & Co., 1170 Broadway, New York.

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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.

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Weathered Co., Box 789, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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GREENHOUSE HOSE.

Mineralized Rubber Co., 18 Cliff St., N. Y.
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HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston, Mass.

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The Kervan Co., 20 W. 27th St., New York.

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Michigan Cut Flower Co., 38 and 40 Miami Ave., Detroit, Mich., Wm. Dilger, Mgr.

Fancy Ferns.

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E. A. Beaven, Evergreen, Ala. Fadeless Sheet Moss.

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Hardy cut ferns. L. B. Brague, Hinsdale, Mass.

Fancy ferns, green sheet moss; leucothoe sprays, etc. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

HARDY PERENNIALS.

M. H. Walsh, Woods Hole, Mass.
For page see List of Advertisers.

For Sale—The most complete stock of Hardy Perennials, Dahlias and other Bulbs, for Spring planting at reduced prices. Get list. Palisades Nurseries, Sparkill, N. Y.

HEATING APPARATUS.

Lord & Burnham Co., 1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Square, New York.

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Hitchings & Co., 1170 Broadway, New York.

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Kroeschell Bros., 35 Erie St., Chicago.
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HORICUM.

Hammond's P. & S. S. Works, Fishkill-on-Hudson, N. Y.

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HOT-BED SASH.

The A. T. Stearns Lumber Co., Neponset, Mass.

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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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KENTIAS.

Godfrey Aschmann, 1012 Ontario St., Philadelphia.
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A. Leuthy & Co., Roslindale, Mass.
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LAWN MOWER.

Clipper Lawn Mower Co., Dixon, Ill.
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LEADING RETAIL FLORISTS.

Alex. McConnell, New York.
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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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Young & Nugent, 42 W. 28 St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Av. & 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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NICO-FUME.

Ky. Tobacco Product Co., Louisville, Ky.

NURSERY STOCK.

John Waterer & Sons, Ltd., American Nursery, Bagshot, England.
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Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.
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John Scheepers & Co., 2-6 Old Slip, N. Y.
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The Conard & Jones Co., West Grove, Pa.
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To Clear the Land for Other Stock. 3000 Willow, Laurel Leaved and Golden, 4 to 6 ft., \$9.00 per 100; 6 to 8 ft., \$14.00 per 100. 4000 White Pine, 8 to 14 in., transplanted, \$6.00 per 100; 6 to 10 in., seedlings, \$3.50 per 100. 2000 Hemlock, 4 to 6 ft., transplanted, \$70.00 per 100; 6 to 10 in., seedlings, \$3.50 per 100. Fine, clean stock. The Pierce Nursery, Beverly Farms, Mass.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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A. Held, 11-19 William St., New York.
Orchids for Spring Delivery.
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PALMS.

A. Leuthy & Co., Roslindale, Mass.
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PATENTS.

Siggers & Siggers, Washington, D. C.
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PEONIES.

Edward Swayne, West Chester, Pa.

Peonies, 1200 sorts. Greatest list anywhere. C. Betscher, Canal Dover, Ohio.

Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

PHOENIX ROEBELINI SEED.

Yokohama Nursery Co., 31 Barclay St., New York.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PLANT BED CLOTH.

Mineralized Rubber Co., 18 Cliff St., N. Y.
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PRUNING SHEARS.

Rhodes Mfg. Co., Grand Rapids, Mich.

RHODODENDRONS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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Bassett & Washburn, Hinsdale, Ill.
Rooted Cuttings of Kaiserin, Pres. Carnot, La Detroit.
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Paul Niehoff, Leighton, Pa.
Rose Aurora.
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Robert Scott & Son, Sharon Hill, Del. Co., Pa.
Grafted Roses.
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The Conard & Jones Co., West Grove, Pa.
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Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1/4-in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to the late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass.
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Joseph Breck & Sons, 51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co., 33 Barclay St., New York.
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Henry A. Dreer, Philadelphia.
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A. T. Boddington, 342 W. 14th St., N. Y.
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H. F. Mitchell Co., 1017 Market St. Philadelphia, Pa.
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James Vick's Sons, Rochester, N. Y.
Aster Seed.
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W. W. Rawson & Co., 5 Union St., Boston.
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Hjalmar Hartmann & Co., 12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Rickards Bros., 37 East 19th St. New York.
Asparagus Plumosus Nanus Seed.
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Johnson Seed Co., 217 Market Street, Philadelphia.
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R. & J. Farquhar & Co., 6-7 So. Market St., Boston.
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SEEDS—Continued.

Watkins & Simpson, 12, Tavistock St., London, Eng.

Sweet Pea Novelties.

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Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

Aster Seeds, home-grown, strictly pure. Prices right. Nathan Smith & Son, Adrian, Mich.

SHEEP MANURE.

Pulverized Manure Co., 31 Union Stock Yards, Chicago.
Wizard Brand.

Wm. Elliott & Sons, 201 Fulton St., New York.
Sterilized Sheep Manure.

SHEET MOSS.

E. A. Beaven, Evergreen, Ala.
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SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash H. R. Akers, Chatsworth, N. J.

STEAM TRAP.

E. Hippard, Youngstown, O.

TOMATO SEEDS.

Wm. Sim, Cliftondale, Mass.
Comet Tomato.
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VENTILATING APPARATUS.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Weathered Co., 46 and 48 Marion St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VINCAS.

10,000 vincas 2 1/2 in. fine, \$2.50 per 100; \$20.00 per 1000. R. Cuttings same, \$1.00 per 100; \$7.00 per 1000. Cash, please. Benj. Connell, West Grove, Pa.

VIOLETS.

H. K. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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WILD SMILAX.

E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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Caldwell the Woodsman Decorating Co., Evergreen, Ala.
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WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

Wire work, all kinds. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

William E. Hielscher's Wire Works, 38-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

WHOLESALE FLORISTS.

Boston.

N. F. McCarthy & Co., 84 Hawley St., Boston.
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WHOLESALE FLORISTS—Continued

Boston.

H. M. Robinson & Co., 15 Province St., Boston.
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George A. Sutherland Co., 34 Hawley St., Boston.
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Welch Bros., 226 Devonshire St., Boston.
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Buffalo.

Wm. F. Kastling, 333-87 Ellicott St., Buffalo, N. Y.
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Chicago.

Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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A. L. Randall Co., 19-21 Randolph St., Chicago.
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E. F. Winterson Co., 45-49 Wabash Ave., Chicago.
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Poehlmann Bros. Co., 35 Randolph St., Chicago.
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Detroit.

Michigan Cut Flower Exchange, 38 & 40 Broadway. Wm. Dilger, Mgr.
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New York.

J. K. Allen, 106 W. 28th St., New York.
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Wm. Stuart Allen Co., 53 W. 28th St., New York.
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C. W. Eberman, 53 W. 30th St., New York.
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J. S. Fenrich, 110 W. 28th St., New York.
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Ford Bros., 48 West 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 West 28th St., New York.
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E. C. Horan, 55 West 28th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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John I. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Traendly & Schenck, 44 W. 28th St., New York.
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A. L. Young & Co., 54 W. 28th St., N. Y.
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John Young, 51 W. 28th St., New York.
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Philadelphia.

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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Leo Niessen Co., 1209 Arch St., Philadelphia, Pa.
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The S. S. Pennock-Meehan Co., 1608-18 Ludlow St., Philadelphia, Pa.
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Edward Reid, 1526 Ranstead St., Philadelphia, Pa.
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Pittsburg.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
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New Offers in This Issue.**AMARYLLIS, TUBEROUS . BEGONIAS, GLOXINIAS.**

H. H. Berger & Co., 47 Barclay St., N. Y.
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ASTER SEED.

Johnson Seed Co., Philadelphia.
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BEGONIA VERNON.

Wm. Elliott & Sons, 201 Fulton St., N. Y.
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CARNATIONS, ROSE PLANTS, ASPARAGUS SEED.

S. S. Pennock-Meehan Co., Philadelphia.
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GLASS.

Standard Plate Glass Co., Boston.
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JAPAN BULBS, BAMBOO CANES.

R. M. Ward & Co., 12 W. Broadway, N. Y.
Seitaro Arai, Yokohama, Japan.
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NEW ORCHID-FLOWERING SWEET PEAS.

Henry A. Dreer, 714 Chestnut St., Phila.
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ORCHIDS, PALMS, FERNS.

Siebrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.
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PULVERIZED SHEEP MANURE.

R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston.
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SHASTA DAISIES.

Leedham Bulb Co., Santa Cruz, Cal.
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TREES AND SHRUBS.

F. W. Kelsey, 150 Broadway, New York.
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UNLEACHED HARWOOD ASHES.

John Joynt, Lucknow, Ont., Can.
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WIRE HANGING BASKETS.

Frank W. Ball, 31 East 3d St., Cincinnati.
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WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

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WANTED—Intelligent young gardener with some botanical and fern knowledge. Good salary. Address with qualifications H. J., care HORTICULTURE, 11 Hamilton Place, Boston, Mass.

WANTED AT ONCE—A sober and energetic young man with knowledge of pruning, planting, etc., to assist in general landscape work. Apply in person or by mail with reference to A. Van Leeuwen, Jr., 3 Wexford Rd., Worcester, Mass.

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SODA IN ITS RELATION TO PLANT GROWTH.

Address Before the Newport Horticultural Society.

On Tuesday, January 22, a large and representative gathering of horticulturists listened appreciatingly to an address by Professor Wheeler, director of the Agricultural Experiment Station at Kingston, on "Soda in Its Relation to Plant Growth," at a meeting of the Newport Horticultural Society. Professor Wheeler spoke without any notes, but evidently from a clear understanding gained from personal experience. The speaker said that the effect of soda on plant growth is a subject which has been considered by horticulturists for many years, and upon which there have been many and diversified opinions. The Rhode Island Station began its experiments in 1894, and at that time a certain writer in Boston filled the agricultural papers with statements that soda and soda salts were as valuable as potash in plant growth, and could be substituted for the latter, and the experiments at the station were made to learn if soda was beneficial solely because it liberated more potash from the soil, and thus gave the plant more potassium which is needed for its growth, or if it was valuable of itself.

Earlier than this agriculturists in Sweden and Germany had claimed that under certain conditions soda was capable of increasing certain crops very decidedly, in some cases even one-half, by virtue of a direct manurial action, and other authorities, on the contrary, denied that soda was capable of performing any such beneficial functions. With the leading scientists at war on the subject, the experiments at Kingston were begun to find out just what soda would do. These experiments have shown very material differences in the benefits of soda upon different plants.

For instance it was found that when as much as 300 pounds of muriate of potash were used, applications of soda ash or common salt in addition to potash have greatly increased yields in case of fodder beets. When the supply of potash was reduced, crops like turnips and radishes were greatly increased by applying the sodium compound in manure. In other crops it was found that sodium salts were of little value. It having been found that soda was beneficial in certain cases, the next experiments were directed towards finding out how the benefit was obtained, whether it made the soil as a whole moist or better, liberated more potash and other ele-

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ments of plant food, or whether it helped by increasing the contents of soil solution. In these experiments the station had the assistance of experts from the bureau of soils of the Department of Agriculture at Washington and the work has been carried on continuously for several years under widely varying conditions, in wet and dry seasons.

These experiments have thrown some new light upon the question of how soda is beneficial; chiefly that where potash is used the soda may not be of benefit, and again, if the potash supply is short soda may be helpful. It has been learned that some plants can be helped by the use of soda though there is a shortage of potash, while others are not, and particularly it has been learned that the use of nitrate of soda and kainit, which contains large quantities of soda, is an insurance against a shortage of potash in soil where those plants are grown which are capable of being benefited by soda.

There is much yet to be learned, but because everything is not known it is not a good reason for stopping the assistance that is needed to continue the work. Other scientific investigation has been continued for centuries before the desired results have been obtained. Successive generations have handed down the results of the labors to their posterity, and the experiments in plant life are but the beginnings of a scientific investigation, which others will continue and in the distant future find out what it is desired to know. After the address questions were asked bearing upon other peculiar and not very well understood actions of chemicals on plant life. The questions were answered at least very courteously by the speaker although it must be confessed that the questioners were left pretty nearly as much in the dark as ever; this is especially the case in regard to the sterilizing of soils in regard to which Prof. Wheeler was questioned.

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Oakville, Ct.—Charles Abbott, one house.
Springfield, Ill.—Thomas Peaker, one house.
Indianapolis, Ind.—T. F. Parry, one house, 40x300.

Additions.

Muskegon, Mich.—L. Wasserman, two houses.
Danville, Ill.—Frank Smith's Sons, two houses, 30x300.
Elmira, N. Y.—U. S. Cut Flower Co., 18 houses, each 100 feet long.
Pomfret Centre, Conn.—Mrs. R. M. Clark, two sections, each 50 feet in length, by Weathered; Miss Clark, rose house, by Lord & Burnham Company.

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CALIFORNIA NOTES.

The writer made a brief call last Sunday at the Santa Rosa residence of Luther Burbank, and learned that he had just concluded an article prepared for publication on "The Originator's Aim," in which he declares that the plant originator is an explorer into the infinite who has "no time to make money," and whose castle, the brain, must be kept clear and alert for throwing aside fossil ideas and replacing them with new scientific thoughts, followed by action.

Professor C. W. Woodworth, head of the department of entomology of the State University, is at present engaged in important experiments designed to prove how much poison in the form of a spray is necessary to kill insect pests and how much poison can be put into the spray without injuring the vegetation on which the pests feed. All classes of pests will be included as subjects of the savant's experiments, and the results are expected to be of great value to orchardists throughout the state. The expensive materials being used in the experiments were ordered from Germany.

LIST OF PATENTS.

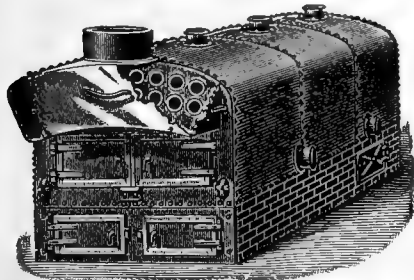
Issued January 15, 1907.

- 841,132. Draft Rigging for Vehicles. William J. Drees, Covington, Ky.
- 841,166. Tedder Attachment to Mowing Machines. John Moore, London Township, Ontario, Canada.
- 841,171. Cultivator. Matthew H. Nicholson, Tyler, Texas, assignor to Eugene Rosenbaum, Dallas, Texas.
- 841,306. Combined Hothouse Grapery and Greenhouse. Robert Bender and Frederick W. Taylor, Philadelphia, Pa.; said Bender assignor to said Taylor.
- 841,390. Plow, Andrew Gullickson, Gatzke, Minn.
- 841,406. Dump Wagon. Carl E. Kaufman, Rosedale, Kans.
- 841,431. Weeder. Eugene Pearl, Passaic, N. J.
- 841,461. Hand Cultivator. Benjamin F. Shuart, Oberlin, Ohio.
- 841,488. Garden Implement. William C. Dodge, Lodi, Cal.
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320 5 " " " 4.51	24 11 " " " 3.60
144 6 " " " 3.16	24 12 " " " 4.80
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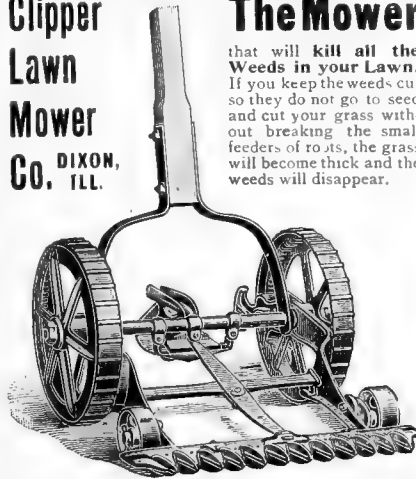
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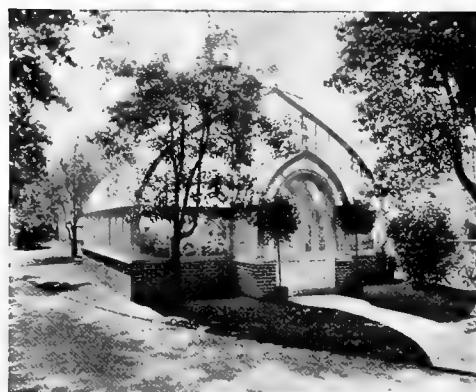
in manufacturing costs, today, is production costs—it's not all in what a thing costs you, but what it's costing the manufacturer. If we were running our factory on a "loose end" basis, it's safe to say you would get a "rule of thumb" house, and because of our lost motion we could not afford to give you the best materials—but we don't do business that way! Our manufacturing cost is down so fine that you can't beat our quality at our price anywhere in the market—and you'll have pleasant dealing. Write us.

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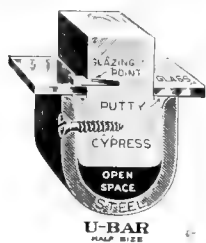
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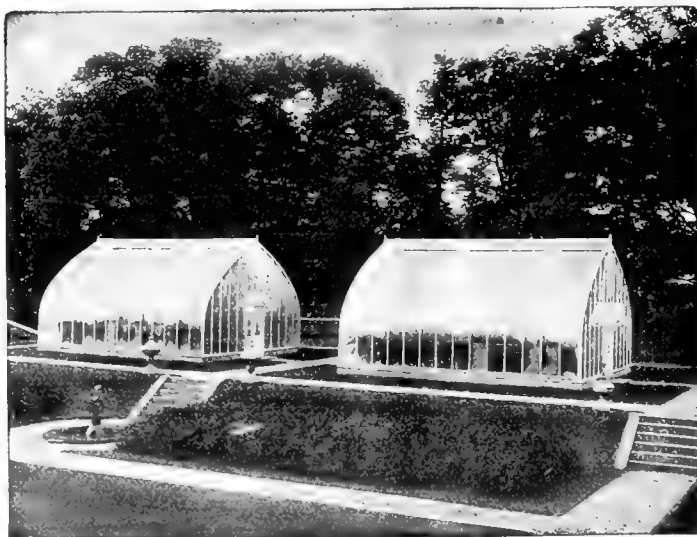
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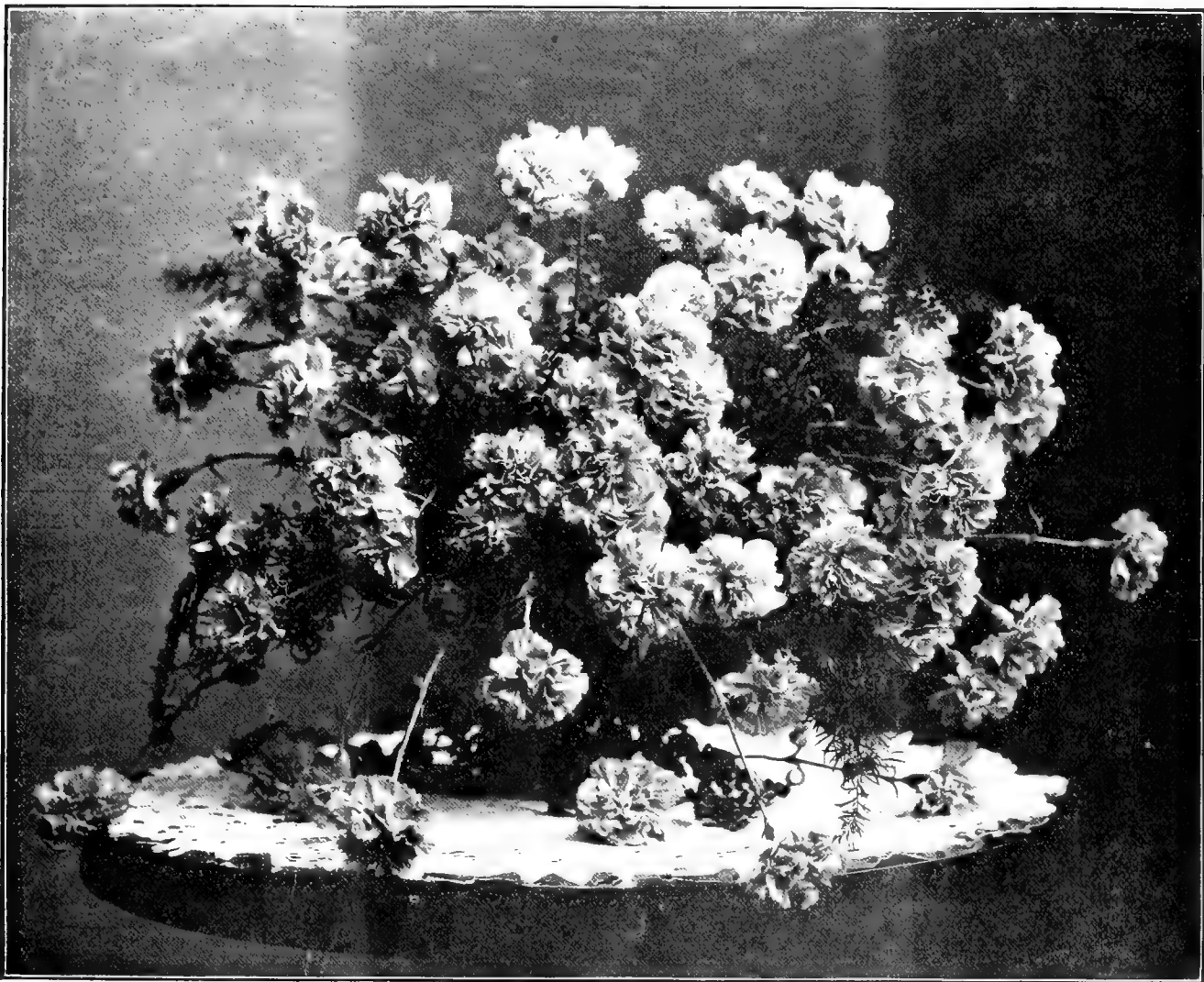


HORTICULTURE

Vol. V.

FEBRUARY 16, 1907

No. 7



CARNATION WINSOR
Centerpiece Arrangement by J. Lucia Doolittle

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LANDSCAPE GARDENER
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(ORANGE-SCARLET)

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Great Commercial Value

Do you want to keep the "Blues" and grow Beacon? You can't do both.

Commencing to bloom early in the Fall, it gives a profusion of flowers for Christmas (when scarlet is in demand at remunerative prices) and CONTINUES THROUGHOUT THE WINTER MONTHS. It may not score as high on the exhibition table as some, but WILL FIGURE UPON THE RIGHT SIDE OF YOUR LEDGER in a manner highly satisfactory.

The blooms, under ordinary culture, average 2.3-4 to 3 inches in diameter, the guard petals are broad, well arranged, and of good substance, the centre loosely arranged and not too full. Color, scarlet with a dash of orange, which lightens up the flower, especially during dull, dark weather, making it very brilliant and attractive. The stem is long, stiff and wiry. Calyx long and seldom bursts (less than four per cent. last winter). It propagates easily. The plant is a vigorous, healthy grower, of ideal habit, and a most profuse bloomer. A night temperature of 50 to 52 degrees suits it admirably.

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There is nothing on the market that approaches Winsor to-day in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities—in fact, in this regard it covers every necessary requisite as a market variety.

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We not only have a good thing in Winsor, but we are delivering good stock. As a sample of the testimonials that we are receiving, see this space in last issue. We are trying to give 110 cents on the dollar, and guarantee to please everybody with the stock sent out, or we will not ask you to pay for it. We have still to receive our first complaint, and we have shipped between one and two hundred thousand cuttings to date.

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Enchantress	2.50	20.00
Lawson	2.00	15.00
White Lawson	2.50	20.00
Harry Fenn	2.50	20.00
Queen	2.00	15.00
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Flamingo	3.00	25.00
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Gets away rapidly, blooms early and gives long stems
right from the start. Productiveness—Prodigious is
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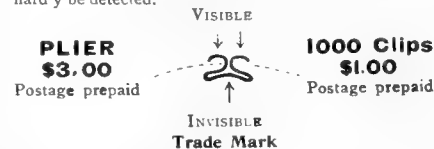
before splitting. Don't try to patch them
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500	Mme. Breon	Flesh, centre creamy white	10.00
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250	Paganini	Rose, centre white and yellow	15.00
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AURORA

See announcement and full description in "Horticulture," December 8 issue.

PAUL NIEHOFF, - Leighton, Penn.

Cedrus Libani and Cedrus Deodara



Photo by John F. Johnston

CEDRUS DEODARA
at Dosoris, Long Island.



Photo by John F. Johnston

SEQUOIA GIGANTEA
Dana Island—Height, 45 feet.

To the Editor of HORTICULTURE:

Sir—Mr. Hans' writings in HORTICULTURE are most interesting and instructive and his latest subject, Ornamental Conifers, is especially so to me. His remarks about the hardiness of the members of the cedrus family interested me much. Like Mr. Hans I consider *C. atlantica* the hardiest of the three, only I thought it would be of interest to your readers to know to what extent *C. Libani* and *C. Deodara* has succeeded at Dosoris, Glen Cove, L. I. Here *C. Libani* is at least 20 feet in height and in a healthy condition. It grows in a light, sandy soil and in a position fairly well protected from the cold piercing northwest winds so prevalent here in winter.

C. Deodara, which is recognized to be the tenderest of all, is here even taller and more healthy looking than *C. Libani*. It must be all of 25 feet in height,

and accordingly has stood the test of a good many severe winters. This *Deodara* cedar is more favorably situated, however, than the Lebanon, but grows also in a light sandy soil. Thus the wood becomes well-matured before winter sets in and is, I think, in a great measure accountable for its doing so well. I should feel indebted to other readers for any information on the hardiness of these cedars.

Also I may remark here that a plant of *Sequoia gigantea*, the "Big tree of California," about 40 feet high, grows on this estate. It is in good vigor.

John F. Johnston

Glen Cove, N. Y.

NEXT WEEK---COLORED SUPPLEMENT

Oriental Poppy "Mrs. Perry"

British Horticulture

SWEET PEA SPECIALTIES.

Chatting the other day with a member of a leading firm of seedsmen, I learned that the interest being taken in the sweet pea shows no signs of lessening. On the contrary, the demand seems greatly on the increase. This is not surprising, seeing the great advance which has been made in recent years in the form, texture, and tints of this popular annual, which is essentially a poor man's flower. There are about 36 new varieties placed on the market this year. Amongst these a prominent place should be given to the new varieties which are being sent out by the well-known firm of Messrs. Watkins & Simpson, Tavistock street, London. This house occupies a foremost place among wholesalers in the British Empire, and what they take up may be regarded as worthy attention by the trade. The members of the National Sweet Pea Society who visited the firm's trial grounds last July were able to judge of the excellent manner in which this branch of the business is conducted. Mr. Alfred Watkins is a sweet pea enthusiast, and last year was President of the National Society. The additions now being sent out are valuable acquisitions, likely to come to the fore on the show tables. Nora Unwin is a good white having the wavy form of the now far-famed Gladys Unwin; E. J. Castle, named after a journalistic friend, is of a rich carmine rose, with a salmon shading; Frank Dolby is an improved Lady Grisel Hamilton; Mrs. Alfred Watkins is a delightful shade of coral pink; A. J. Cook, a useful violet mauve.

A POPULAR ANNUAL.

Another indication of the increased interest taken in the sweet pea is the issue of an annual entirely devoted to this delightful flower. The third issue of this work has lately been published for the National Sweet Pea Society under the joint editorship of Messrs. H. J. Wright and C. H. Curtis. The society continues to make satisfactory progress. Amongst its vice-presidents are W. Atlee Burpee, Philadelphia; Lester C. Morse, and Ant. C. Zvolanek, Bound Brook, N. J. This year a new contributor is included in Mr. C. Harman Payne, who writes on "The bibliography of the sweet pea." Mr. Payne's researches have not been very productive, for there is a paucity of literature dealing solely with the sweet pea. Rev. W. T. Hutchins, of Indian Orchard, Mass., is credited with being the pioneer author of an independent treatise on sweet pea cultivation. Mr. Payne has been unable to find the date of the first edition, but the second edition was published by Messrs. W. Atlee Burpee & Co., of Philadelphia, in 1894. In the available list of works is given the bulletin 127 entitled "A Second Account of Sweet Peas," published by the Cornell University in 1897 from the pens of A. P. Wyman and M. G. Kains. The article of Mr. Payne is only one of many interesting contributions which have been brought together from all parts. Even Canada is represented. Mr. James A. Bland, Secretary of the

Horticultural Society, British Columbia, contributes a very readable article on "Sweet Peas in British Columbia."

THE AMERICAN GOOSEBERRY MILDEW.

We are now in the midst of a controversy in this country as to the above fruit pest. Professor Salmon, of Wye, has discovered some cases in England, and he is now actively engaged in a crusade to induce the Board of Agriculture to take severe measures to prevent a further importation of the disease. The Professor favors the passing of a legislative enactment, prohibiting the importation of the bushes from infected countries. At present the Board have no statutory authority of this kind. On the other hand Mr. Geo. Massee, a Kew expert, contends that Professor Salmon has taken up an alarmist attitude; he asserts that fresh legislation is unnecessary. Mr. Massee states that the disease can be easily coped with by pruning the bushes and by proper spraying. Professor Salmon backs up his attitude by publishing an extract from a letter lately received from Prof. B. T. Galloway, chief of the Bureau of Plant Industry, U. S. Dept. of Agriculture. This communication states: "Only a few varieties of European gooseberries are grown in the United States commercially, and these have never been important." Prof. Salmon winds up the controversy as follows: "I have repeatedly urged that immediate legislation is necessary to deal with the disease. It depends now to a large extent on growers; do they care to exert themselves to obtain from the Board of Agriculture the necessary protective measures?" The question has aroused keen interest amongst growers. At several meetings held at the principal fruit growing centres, resolutions have been passed in favor of additional powers being obtained by the Board of Agriculture.

A NEW APPLE.

Although the year 1906 produced no lack of novelties in the floral department it cannot be said to have brought forth any very striking new fruit introductions. It is difficult to understand why there should be this great disparity, for the raiser of a new fruit of merit can generally command a good price for the article. Of course, the prizes are few and the blanks many. One of the most successful apple raisers is Mr. Chas. Ross, of Welford Park Gardens, Newbury, Berks, who has raised about a dozen sterling varieties, one of the more recent being named after himself. His latest introduction is a culinary variety named Encore which will be found useful for late work. It recently received an award of merit from the Royal Horticultural Society. The variety was very much admired when exhibited in London a short time since, and it has certainly enhanced the raiser's reputation. Mr. Ross well deserves the name of a "grand old gardener." He is over 80 years of age, alert and vigorous. A few weeks ago he journeyed to London and staged his exhibits at the show of the National Potato Society. Despite his advanced age he takes a keen interest in horticultural matters. There must be something conducive to old age in a gardener's life, as there are many veterans to be found in their ranks. It is marvellous how their interest is maintained in gardening matters even when they have reached the "sere and yellow leaf period" and the hoe has been laid aside for younger hands.

W. H. Gidsett.

Roses Under Glass

PROPAGATION

The first essential towards successful propagation is a properly constructed bench. To devise and build a bench that will respond to all that is required of it has been the work of some of our best growers for many years; the result is a bench as different in appearance from the old style propagating bench as is the modern iron-frame greenhouse compared with the antiquated building of twenty years ago. Many growers, however, still adhere to the common rose bench, converted into a propagating bench by the addition of boards along the sides to conserve the heat. This practice is to say the least very unsatisfactory, as no matter how neatly the boards are made to fit, the intense heat contained in the interior of the bench soon warped them causing them to spread, and in addition to allowing much of the heat to escape, gives to the bench a most unsightly appearance. To overcome this difficulty the propagating bench may be built of brick or cement, materials not so susceptible to heat. Growers who have tried this style of bench speak very highly in its favor; it is more easily regulated than the old rose bench, and the good results obtained soon compensate the grower for his extra labor and expense. In building the walls or sides of the bench, spaces should be left for the ventilators. A very satisfactory bench operated on a place where the writer worked was built of cement, the bottom being of tile. The walls were about 3 ft. 6 in. in height, 4 1-2 in. in thickness at the base, tapering a little to within 7 in. from the top, at which point they were reduced abruptly to 2 in., the ledge thus formed serving as a support for one end of the tiles, the rest being supported by iron bars, fastened to the cross bars which were made of the same material. An opening was left in the center and running full length of bench, about 4 in. across, and covered with a box made of twelve-inch boards, a six-inch board being hinged on to one of the larger boards, the whole forming a most ingenious ventilator, as when the cover was raised, the greater portion of surplus heat was conveyed to a distance above the bench where the danger of scorching to the cuttings was minimized. Along the sides were placed other ventilators which let in cool air as it became necessary.

The bench, whatever material is used in its construction, should be equipped with a sufficient amount of pipe to insure a bottom heat of 70 degrees; not that this is essential to the well-being of the cuttings but as a means of safety during a protracted period of zero weather. Valves should be placed on each run of pipe, so that one or more may be used independently. To keep the pipes off the ground and prevent the displacement of the bench, due to expansion, a good method is to suspend each pipe by means of a stout wire to the cross bars that support the tiles, thus allowing the pipes to move with perfect freedom, and obviating any possibility of the derangement of the supports.

Sand for roses should be clean and sharp, not too gritty, and free from any decomposing matter. In order to make it pack nicely the sand should be moistened and pounded down firm, leaving a uniform depth of four inches.

(Selecting and rooting the cuttings will be the subject of the next article.)

Culture of the Amaryllis

The seed should be sown between the 10th and 20th of August. Where several hundred or more seeds are to be sown, shallow boxes or flats 2 ft. x 18 in. x 3 in. deep are best. The soil should be good, sandy and silky to the touch, evenly filled in, the surface levelled, and each seed put on edge; mind you one edge, in rows an inch apart, gently pressed into the soil, then levelled and given an even thorough watering. Place in temperature of no more than seventy-five degrees. Keep each box shaded with glass covered with brown paper or canvas night and day until the young plants show, which will be in a week or ten days if the seed is new and good.

The shading should be removed as soon as the majority of the plants are well above the soil; they should be placed in a light, warm place, being careful that they do not suffer from want of water. When the plants have two leaves each and the third one is developing, which they should do in seven or eight weeks, it will be time to transplant them into other like boxes (in good soil such as will grow good geraniums), 3 inches apart each way—made firm, well watered and encouraged to grow as rapidly as possible. After they have been growing for two months in these boxes (I mean growing) their leaves should begin to overlap each other, when, twice a week, they should be soaked with not too strong manure water, kept growing rapidly until first of May. Then partially withhold the water until the middle of the month, thus preparing them for their outdoor treatment which is soon to begin. For two weeks previous to planting out, place them in a frame where the sash may be taken off every sunny day and put on again every night when chilly.

Now for out-door treatment. When the ground gets warm in a sunny, well-drained spot, in a trench 5 inches deep, lay flat a 5-inch fence board; on either side of this set on edge a 5-inch fence board, thus forming a trough. Fill this trough with rich soil, such as will grow good roses or chrysanthemums; fill up the outside of the boards with the soil that is; then set the very strongest plants 6 inches apart and the weaker ones 5 inches apart, make firm and soak thoroughly with water. It will be understood that the 5-inch fence boards are used as illustrators from which deductions or elaborations may be made. Twice a week during the summer a good soaking of cow or other manure water should be given.

Between the 10th and 20th of September, beginning at one end, take up each plant carefully; don't break off one tittle of root. Pot quickly into 5 or 6-inch pots, as size of plant suggests, in good soil. Cut off tops one-third, tie leaves upright loosely, give one good watering, stand in blocks snugly together; give water sparingly afterward, and in ten days take the pots inside, lay them on their sides under the benches, in greenhouse temperature and give no more water until ready to begin forcing them, or otherwise preparing them for flowering.

John Thorpe

(To be continued.)

HORTICULTURE

VOL. V

FEBRUARY 16, 1907

NO. 7

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292
WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, .05.

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;

six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass.

under the Act of Congress of March 3, 1879.

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It was no small undertaking to get three thousand blooms together and send them in special care from New York to Toronto but no one who saw the display at Toronto will question the wisdom of the move or doubt that the cost was well repaid in results. Given a good rose, carnation or other flower, well-grown, and its mission is far from accomplished until it is well-sold. We know of no more direct way to attain this desired result than to show to the public in attractive form the various uses to which these flowers may be put.

The position
of the sweet pea

A correspondent in an English contemporary refers to the sweet pea as "next to the ever-supreme rose, indubitably the flower of the future."

This is a bold prediction—one which our friends, the carnationists, will view with an eye half-closed, undoubtedly—but stranger things than this have happened and to those who have watched the wonderful development of the sweet pea in this country and abroad during the past few years no prediction will seem incredible. Great as has been the improvement in varieties for general culture the advancement that appeals most strongly to us is in the winter-flowering section which, under the subtle mastery of such growers as William Sim, is already in a secure place among the choicest popular favorites in the cut flower market. And each year sees marked progress in some desirable characteristic.

A suggestion
in regard to the
Rose schedule

It is announced that the growers whose sensational displays contributed so much lustre to the Rose Show at Boston last year are to exhibit again in this year's exhi-

lition at Washington. This is good news and gives assurance that the American Rose Society is in a way to fully equal, if not surpass, the notable success of a year ago. That this knowledge will tend to greatly increase the professional attendance at Washington and swell the membership of the Society, goes without saying. We miss from the schedule, however, the decorative classes, such as the mantel and table centre piece competitions, which proved such strong attractions at Boston, especially with the general public and this is to be regretted as Washington can boast of florists with abilities in this line second to none in the world. Perhaps the omission may yet be remedied, as it should be, in the interests of the Society and the flower for which it stands.

Planting will soon be in order. One bit of planting, as important as any, and always in season you perhaps have overlooked or deferred. We mean an advertisement in *HORTICULTURE*. It will take but a few minutes of your time to attend to it and once done it will be like Sandy's tree, "growin' while you're sleepin'." Start now with a contract for at least 70 cents' worth each week during the coming year. It will yield an abundant crop.

A clever innovation On another page we call attention to the innovation of an exhibitor at the Carnation Show in Toronto, who, not content to stop at the customary vase displays, arranged to have his leading specialty shown in such manner as to depict its decorative value for various purposes.

SWEET PEAS AND DAHLIAS AS A WINTER CROP.

The extent to which the early flowering qualities of *Blanche Ferry* sweet pea has been developed is shown quite plainly by comparison, at the plant of W. C. Ward at Wollaston, Mass. A row of Burpee's Reselected Earliest of All, which was sent out by Burpee last season, as a type possessing a distinct gain in time of flowering, over all other sent out by that firm, was planted next to the wall entirely around the house. A row of seed sent out by Burpee two or three years ago, as *Extreme Earliest of All*, was sown in each side bench next to the walk. Across the middle bench rows of Zvolanek's Christmas pea were planted also one row of Extra Early. A heavy coat of manure was applied and worked in thoroughly, the seeds being sown about August 20. Reselected and Christmas both commenced to flower about December 10. *Extreme Earliest of All* grew tall without showing bud and was cut back. *Extreme Early* made a luxuriant growth of vine with no buds in sight the middle of January. Reselected threw a slightly superior flower. Christmas made a fine healthy stocky vine with marked tendencies of adaptation to forcing conditions. The long unbroken spell of dark, cloudy weather made a kind of treatment, much out of the ordinary line, necessary. Fires were banked a good part of the time and a temperature of 40 deg. at night and 45 during the day was as high as it was deemed safe to go, as a few degrees more of artificial heat would have induced a soft growth that would never mature into flowering wood, but wilt and droop upon the first appearance of the sun. When the sun did come out the temperature was allowed to run up and when this has occurred it went above 80 degrees for awhile. Under this treatment Christmas and Reselected threw a few flowers and *Extreme Earliest of All* made a slow growth but had to be cut back,—in some places the second time. If the weather should become bright and sunny and a temperature of 45 to 50 at night and 70 to 80 during the day be allowable, the last named would probably flower in ten or twelve days. *Extra Early* has made so much vine with such indefinite prospects of flowering that it will probably be pulled up.

Under favorable weather conditions, Mr. Ward thinks he might have had flowers by Thanksgiving, but even with this early flowering capacity developed, and making all due allowances for the unfavorable weather conditions prevailing the present season, he finds nothing to show that sweet peas grown from seed sown in the bench in August and given the entire space, will pay their way through December and January, with the high prices prevailing for carnations and roses this winter. \$1.50 per hundred for peas seemed to be the limit. With an easier market for other standard flowers \$1.00 would probably be the average and there is no reason to think they would throw flowers enough at these prices to prevent their being in debt the first of February. Earlier in the history of forcing this flower, seed were sown in pots in January and later planted out in the bench vacated by some other crop, and re-

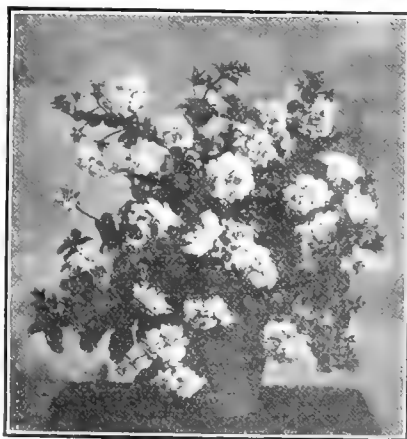
sults obtained were satisfactory. Planted in the carnation houses and trained to the posts, also sown in violet houses in rows the right distance apart, so that they will be brought into flower when violets begin to grow poor, the short time required by Christmas and Reselected from seed to flower gives them a value beyond anything yet offered, but a house of peas grown as a house of carnations or roses is grown would enter into the late winter months, when they do begin to flower in paying quantities, with too much of a deficit to make the average for the season a reasonably profitable one.

Dahlias have also failed to fulfil promises as a winter flower at this place. Storm King threw a good crop for a while, then came small and single, then blind, and finally refused to grow at all. Kreimhilde, which looked exceedingly promising, during the middle fall, threw three or four marketable flowers to a plant and then stood still. They were both cut back to two buds the first of January, but as they have not started to grow again will probably be dug up, sweet peas having been planted between the rows. Compared with chrysanthemums they paid well for a late fall crop, but failed to give encouragement as a dependence for the full winter season. Possibly with more sunlight and a higher temperature, placed in raised benches, where they would be free from the chill and dampness which works up through the soil to some extent in the solid bench, a different result might have been shown, but if dahlias do possess winter flowering qualities it is a proposition as yet unproven at this plant in Wollaston.

G. H. HIGGINS.

PETUNIA THE QUEEN.

The illustration herewith shows the character of this superb double petunia better than any description we can



give. The variety originated with the Yates Floral Co., Canajoharie, N. Y., and will be distributed by that firm and the Scranton Florists' Supply Company jointly.

MOVEMENTS OF GARDENERS.

Robert Purshall has left Newport to assume charge of "Bookolt," Mrs. O. H. P. Belmont's place on Long Island, and Charles Philpot, lately assistant to Bruce Butterton at the "Elms," has been appointed Mr. Purshall's successor at "Marble House" and "Belcourt."

SAN FRANCISCO NOTES.

In time of storm a few weeks ago, while passing a refugee camp of shacks built for earthquake and fire sufferers with funds sent here by great-hearted philanthropists of the Eastern states, I took shelter in a shanty occupied by a landscape gardener of my acquaintance and found there two others of like trade. It was interesting to hear those scientists in gardeners' attire talk, and I made some mental notes of what they said, and this is a sample:

"American cities have found it profitable to learn from the example of Paris. Many of them have expended vast sums to make themselves attractive by the planting of trees and palms and shrubs and flowers, and all that have done so have reaped financial rewards while gratifying the civic pride and the love of the beautiful of their inhabitants. Among California cities, Los Angeles was first to realize the value of attractiveness as a commercial asset, and her people, actuated by wisdom as well as a broad spirit of local patriotism, have voted bond issue after bond issue to beautify with trees and flowers their attractive streets and parks. They have proved that it pays to improve and beautify, and they are reaping a reward that they have justly earned by their enterprise and public spirit. The freshest example of this philanthropic spirit is just over the bay in Oakland. They have a city mayor over there who is not under five indictments for serious wrong-doing, as is the case with San Francisco's mayor. Frank K. Mott is his name, a thorough gentleman whose expansive home gardens are one of the beautiful sights of Oakland. I have helped to make it so, and I know Mayor Mott very well. As mayor he won recently a good fight in which he actively participated, the result being a vote of his people, five to one in favor of a million dollar issue of bonds to beautify his city with additional parks."

AZALEA PHARAILDE MATHILDE.

Editor of HORTICULTURE:

Dear Sir:—In your esteemed paper of January 19th, page 83, I read, under the heading "New Plants," that *Azalea Verveana* gifted the trade with a fine new sport—a snow white, except the upper quarter, that is sprinkled with crimson, called *Prohilda Mathilde*. I wish to inform your readers that the so-called novelty is nothing else than the variety *Pharailde Mathilde*, which is in existence since twenty years; it won the gold medal in 1887. Its originator was Mr. Jos. Verveane, who got the unsurpassed *Verveana*, and it was from the very same *Pharailde Mathilde* that *Verveana* sported.

Hoping that you will give these few lines a little corner in your much-liked paper, I am, dear sir,

Yours very sincerely,

AUGUST HAERENS.
Somergem, Belgium.

Have You Read the Advertisements this Week?

NEWS OF THE CLUBS AND SOCIETIES

PITTSBURGH AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

Tuesday, Feb. 5th was carnation night, always one of the most important meetings of the year. There was a good attendance of members who listened with interest to the secretary's report on the past year, showing that on Feb. 1st the club membership was 159, resignations during the year 6, deaths 1, members dropped 8 and new members 17, and a larger bank balance to the credit of the club than ever before. The auditing committee reported the secretary's books had been examined and found correct.

When the election of officers for 1907 was taken up, the vote of the club was cast for the officers of the previous year, viz.: Jno. W. Jones, president; E. C. Reineman, vice-president; Fred Burki, treasurer; H. P. Joslin, secretary; E. C. Ludwig, assistant secretary; P. S. Randolph, Jno. Bader, Fred Burki, executive committee. The salary of the secretary was increased for the ensuing year.

It was proposed by Mr. Burki that the delegation from Pittsburgh to the Carnation Convention at Washington, D. C., in 1908, be authorized by the club to extend an invitation to the convention to meet in Pittsburgh in 1909. The club viewed the proposition with favor and so ordered.

There was not as large a showing of carnations as usual from distant growers. The F. R. Pierson Co., sent fine blooms of their leaders, Winsor and White Enchantress. Winsor added to the reputation gained at the Toronto Convention, where this carnation won the prize for the best one hundred pink, the consensus of opinion being "the best carnation of its color." White Enchantress was well-liked also. The Pittsburgh Rose and Carnation Co. and J. L. Wyland, were the largest exhibitors of the home growers, the former showing fourteen or more large vases. Good stock was also shown by A. T. Lorch, A. R. Peacock, gardener Thos. Jenkinson, E. C. Ludwig, and the Pittsburgh Florists' Exchange. The Baur Floral Co. had on view several split carnations which had been mended with their new clips. The work was very neat and scarcely noticeable. The Maxfield & Dimond Co., Warren, R. I., also showed their artificial brass calyx. This seems to be a preventive rather than a restorer, and is applied to the calyx at the first signs of splitting. When it has served its purpose on one carnation it can be used on another.

When the subject for the next meeting came up, it was decided that a change from our stereotyped exhibition would be pleasant, and Mr. Wm. Falconer, was appointed a committee of one to obtain a specialist to address the club at its March meeting; the club furnishing any material in the way of flowers, etc., that the lecturer might need for illustration.

H. P. JOSLIN, Secretary.

FLORISTS' CLUB OF WASHINGTON.

The regular monthly meeting of the Florists' Club of Washington, D. C., took place Tuesday evening, February 6. The meeting was of unusual impor-

tance, embracing features of much interest to the trade in general. P. Joseph Lynch read an instructive paper on rose culture.

Quite a fine display of roses and new carnations was made. A vase of Golden Gate roses, grown by F. H. Kramer, was awarded a first-class cultural certificate. He also showed his rose, Queen Beatrice, not yet disseminated, but which had previously been favorably passed upon by the awards committee. W. S. Clark showed a seedling rose under the name of "Columbia," though not in sufficient quantity to be noted upon, and it will be shown later.

Among the new carnations shown by the F. R. Pierson Co. were vases of Winsor and White Enchantress, both exhibited for the second time here. H. Weber and Sons Co., of Oakland, Md., showed a seedling of Prosperity type named "Toreador" which was awarded 91 points. Mabelle, from the same grower, was favorably passed upon.

Nominations for annual election of officers resulted as follows: Peter Bisset, president; Z. D. Blackstone, vice-president; Charles McCauley, secretary; Wm. F. Gude, W. H. Ernest, treasurers; board of directors: G. C. Shaffer, F. H. Kramer, W. S. Clark, Mr. Mayberry and Jno. Robertson.

Much interest was manifested in the meeting of the American Rose Society, to be held here March 13, 14, 15. The annual banquet will be given on the evening of March 14 at the Arlington Hotel, to which members of the Rose Society will be invited.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next regular meeting of the club will be held at Horticultural Hall on Tuesday, February 19, at 8 o'clock. Mr. C. W. Ross of Newton will lecture on "Road Construction". There will be some very interesting exhibits on the tables. All florists having steam boilers or who use steam pumps are invited to meet the executive committee at 6 o'clock; any also who are not club members are just as freely asked to be present. The threatened drastic State legislation in regard to steam boilers should be an incentive to all who are directly interested to attend. The club hopes to be able to do something towards mitigating what now appears to be a serious menace to commercial florists and market gardeners.

W. N. CRAIG, Sec'y.

DOBBS FERRY HORTICULTURAL ASSOCIATION.

The regular meeting of this society was held on Saturday evening, February 9, in their room in Odd Fellows' Hall, R. Boreham in the chair. The prize of the evening was won by H. Keilling with a fine bunch of roses. There was an excellent display of cut flowers and pot plants, including mignonette, cyclamens and violets. C. Wilson staged a handsome new asparagus; H. Kastberg some very fine seedling amaryllises. The prize for the next meeting is to be for the best collection of cut flowers.

NEW BEDFORD HORTICULTURAL SOCIETY.

This society at its February meeting was favored by a visit from the secretary of the N. E. Dahlia Society, Morris Fuld, who took an active part in a discussion upon the classification of dahlias, and as the discussion was mainly upon the revising and preparation of the schedule for the autumn show, his remarks were highly appreciated. Owing to inability to obtain information as to dates and hall facilities, the executive committee was unable to present the schedule in a complete form, but hope to have it ready for distribution at the March meeting.

The monthly examination of plants and flowers, which it is hoped will be an interesting feature of future meetings, was left in the hands of the entertainment committee.

Mr. Fuld in the course of an interesting address spoke very highly of the position held by New Bedford in the dahlia growing world, both for the standard of its exhibition and the introduction of new kinds. Several names were enrolled on the membership list of the N. E. Dahlia Society.

NEWPORT HORTICULTURAL SOCIETY.

The schedule of premiums for the early summer or rose show of the Newport Horticultural Society is about completed; all that is now needed is the final approval of the whole society, which approval is already assured. This show will, it is hoped, this year be a good one; at least a generous amount of money is appropriated for premiums, and the list is made as comprehensible as possible. Last year there was no rose show—a lapse that many regretted. Five hundred dollars will be given for premiums listed in the schedule as now arranged, and the expectation is that the special prizes will be fully as numerous as usual; several are heard of already. As soon as the schedule for this has been approved the committee will go straight to work on that for the autumn or dahlia show, which will be bigger still; it will be held in September.

DETROIT FLORIST CLUB.

The last meeting of the Detroit Florist Club was well attended, the principal attraction being a carnation show. The Chicago Carnation Co. exhibited vases of White Perfection, Aristocrat and Red Riding Hood. Van Booslager showed Moonlight and Pink Lawson, and the F. R. Pierson Co. Winsor and White Enchantress. Among local exhibitors were Malost with 200 Lawson of the quality of five years ago, also the largest and best violets seen hereabouts this season. Thos. Brown excelled all others with White Enchantress. Albert Staehlen, a progressive young carnation grower, surprised all with excellent vases of White Lawson, Rose-pink Enchantress, Pink Lawson and fifty blooms of a new and very promising white seedling, and the same may be justly said of fifty blooms of a seedling of darker pink and much larger size than Lawson. These are two seedlings which,

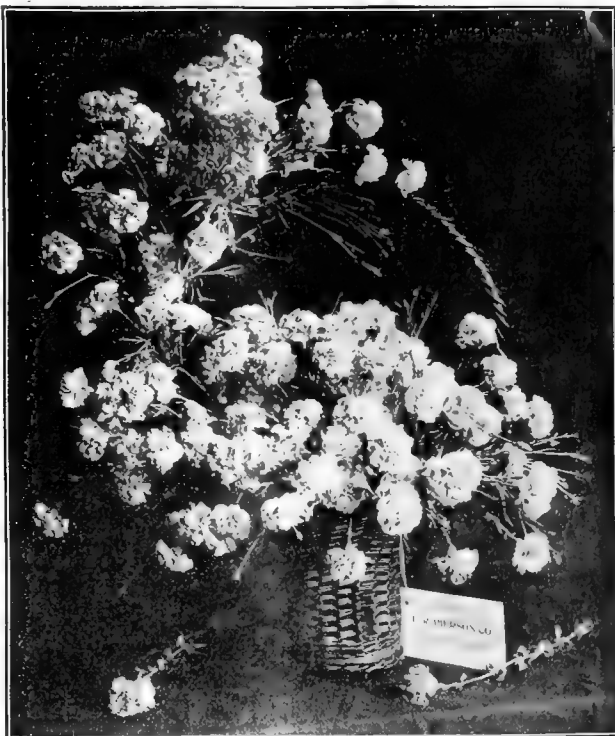
CARNATION WINSOR IN DECORATIVE WORK.



BOUQUET ARRANGEMENT

By J. Ivera Donlan.

In previous issues we have pictured the various carnations winning high honors at the recent Toronto meeting of the American Carnation Society. In this page and the frontispiece of this issue we show that phenomenal success, Winsor, in decorative array, the frontispiece being a charming illustration of the natural arrangement of



BASKET ARRANGEMENT

By J. Ivera Donlan.

carnations as a centre piece, the handiwork of that skilful New York decorator, J. Ivera Donlan. The two excellent arrangements shown on this page are by the same artist and portray effectively the charm of simplicity which it would be hard to improve upon in either instance. Mr. Donlan accompanied Winsor to Toronto, and in addition to the arrangements above

mentioned, put up a fine mirror decoration as a demonstration of the possibilities with a single variety in the hands of a tasteful artist. In thus displaying his pet variety we think Mr. Pierson showed rare business judgment, and the example set on this occasion is likely to have a marked effect on future exhibitions of the American Carnation Society.

in the near future, will absorb the attention of the progressive carnation grower. The discussion of the evening was Carnations, and Carnations again, and Carnations repeated.

THE AMERICAN ROSE SOCIETY.

A meeting of the executive committee was held February 11th, in Traendly & Schenck's office, New York city. The President, Mr. Simpson, reported that Robert Craig of Philadelphia, Wm. F. Kasting of Buffalo and P. J. Hauswirth of Chicago, had consented to act as judges at the Washington Exhibition.

There also has been added to the list of special prizes a \$25.00 prize by W. A. Manda of South Orange, for the largest and most varied collection of cut roses of all classes, one or more blooms in a vase; Wm. H. Ernest of Washington, D. C., \$25.00 for a group of decorative plants covering at least 100 sq. ft. of space; Vaughan's Seed Store, of Chicago and New York, \$10.00 in gold for six plants of White Baby Rambler Rose grown in pots 5 inches or larger; for the best vase of Yellow Roses of any variety \$10.00 in gold by Siebrecht & Son, New Rochelle; for the best 50 blooms of Golden Gate a Silver Cup valued at \$25.00 by W. Atlee Burpee & Co.; for the best 25 blooms La Detroit \$25.00 by John

Breitmeyer's Sons, Detroit, Mich. The schedule of the Society's prizes covering the joint affairs of the American Rose Society and the Florists' Club of Washington was submitted but there will be a supplementary list issued, as this list of prizes is increasing as many people have shown an interest to take part who have not been heard from until within a few days.

Mr. E. Gurney Hill will read a paper upon new varieties. There will be two questions offered for discussion at the Society meeting and they will be as follows: First, What definite work can the American Rose Society take up at this time for its members, in particular, for the rose-loving public in general, that it does not now do. Second, Granted that a large increased membership is desirable and essential to the permanence and usefulness of the American Rose Society; how may it best be accomplished; where shall we find ready response, amongst the professional florists and gardeners or what are commonly called "Amateurs".

The Secretary reported, that a report was now in press covering the matters of the past, the constitution of a Society, and a chapter on roses from the Woman's Hardy Garden by Helen Rutherford Frye. This work follows in the line which was begun by Mr. W. J. Stewart a year or more

ago and is intended for distribution to members and others interested in becoming members of the Society.

The Florists' Club of Washington are making strenuous efforts to make this show a decided success. The Arlington Hotel has been chosen as the headquarters of the American Rose Society. The official meetings of the Society will be held in the exhibition hall, cor. 15th & E Sts., N. W., Washington, D. C., the first meeting beginning at 8 P. M. on March 13th.

BENJAMIN HAMMOND,
Secretary.

Fishkill-on-Hudson, N. Y.

NEW YORK FLORISTS' CLUB.

The twentieth annual dinner of the New York Florists' Club will be held Saturday evening, February 23rd, 1907, at St. Denis Hotel, Broadway and 11th street, at 7 p. m. John Scott, John Birnie and Walter F. Sheridan are the committee in charge, and those who attend are assured of a glorious time.

W. A. Manda is laying out and planting the park which has been established at Aspinwall, Pa., in connection with the filtration plant for the city of Pittsburgh. The park occupies 112 acres and will be planted in natural style with trees, ornamental shrubs, etc.

A FEW WORDS FOR THE ROSE SOCIETY.

(P. Joseph Lynch before the Florists' Club of Washington, D. C., February 5th, 1907.)

Your President and Secretary have done me the honor of extending an invitation to say something to you in regard to the American Rose Society and the joint exhibition it will give in connection with your Club in this city next month. It has been suggested that I give a general talk with reference to the Society, what it has accomplished in the past and what it expects to do in this city. I will give you no occasion for alarm in thinking that I intend to read an exhaustive essay, because I feel that all of you are aware of the splendid work the Society has done in advancing the welfare of the rose. In these few notes I hope to cover briefly the scope of the Society and enlist the earnest and enthusiastic support not only of the members of your Club, but your friends outside of the florists' profession as well.

The American Rose Society was established in 1899, with the broad purpose in view of extending the popularity of the rose among commercial growers, as well as amateurs; to increase the general interest in its cultivation; to impress the standard of excellence; to foster, stimulate and increase the production in every possible way of improved varieties suitable to our American climate. Since its inception it has made steady progress, until now the announcement of an exhibition under the auspices of the Society attracts thousands of interested growers and spectators from all parts of the country. It may be safely said that at the last exhibition held in Boston there was perhaps shown the most magnificent collection of roses, embracing almost every class, ever staged in this country. At that meeting Mr. Sander of St. Albans, England, remarked in his address there, "If the exhibition I see here could be transferred to our Horticultural Hall in London I am sure it would create a profound sensation. Your American Beauty and Richmond roses are as good, if not better, than any I have ever seen."

The Society exhibitions have been instrumental in bringing about a keen but friendly rivalry between our commercial growers, and the value of this is readily apparent, because it stimulates the grower to give the growing of his plants that attention necessary to bring them to the highest degree of perfection, for the purpose of exhibition, thereby increasing the productiveness of his business in cash returns. Then, too, in setting a higher standard of excellence he advances the popularity of the rose in bringing forth its wonderful possibilities. Instead of going about his work in a careless manner the grower, if he be interested in the progress of the Society, will seek to outdo his brother grower in results, with the two-fold advantage of which I have spoken. This is the monetary view of the good that the Society has done, and apart from this commercial phase it has brought to light where the rose-loving public may see the creations of the world beautiful to a high degree of perfection, thus demonstrating the skill of our growers.

These exhibitions are productive of benefits even to the grower who does not exhibit, but who in order to compete in the open market must perforce grow first-class flowers to hold his own—in short our Society is the harbinger of better prices for every grower. While we do not have the great number of new roses that the European growers exhibit at their great shows, yet we are steadily increasing in the creation of new varieties, as has been well testified to in the past three years, during which time there has been more new roses of merit introduced by American growers than perhaps in a decade previous to that time. Interest in hybridization has been stimulated, and while the work differs very materially from that in carnations, inasmuch as the later flowers responds so readily to the efforts of improvement, yet we are proud of the many new varieties that have first seen the light of day in America and have been shown at the exhibits of the American Rose Society. Then, again, in this branch of the work the necessity for roses that will adapt themselves to our varying climate has been clearly shown, and by intelligent efforts we have accomplished something we have never had before, and that is the creation of roses to suit the planter of the South, as well as the grower in the North, not only for the commercial florist, but especially for the amateur grower, who after all is first to be considered, because if we can enlist the support of the great masses of amateur rose growers in all parts of the country by helping them to succeed we know not to what extent the power and influence may extend in beautifying our land and increasing the revenues of our growers. We have found by experience that out of the multitude of new roses sent us from Europe there are but few that have adapted themselves to our climatic conditions, so that it would seem to be the cardinal work of this Society to demonstrate that which is best and that which is not best for professionals and amateurs alike, and this can be only accomplished by unity of action among growers, enthusiastic love for the rose, and a spirit that what is good for one of us is good for all. The wants of the buyer of our product vacillates from time to time, and in order to keep abreast of the times and secure flowers that will bring the best price we must needs have some means of acquiring this knowledge, as well as of disseminating it. While Bride, Bridesmaid, Golden Gate and Tea roses of similar character, whose popularity perhaps has not diminished because of the increased number of people who buy, yet it would seem, to touch upon this subject briefly, that as ex-president Montgomery of this Society very aptly stated that the rose of the future will undoubtedly be raised from a mixture of the Tea and Hybrid Tea, producing a Hybrid Tea of the type of Tom Field and Queen Beatrice, your home roses, Richmond, Liberty, Miss Kate Moulton and others, all roses of the Hybrid Tea class, because of their high and positive colors, which are now so much wanted. Then, too, these roses require more skill in growing, which means more attention, resulting in the very condition spoken of previously, that the grower secures

in the end a greater return for his labor than he could hope to do were we to continue to be satisfied with the favorites of former years. So much for what the Society has tried to do in the past.

Now as to what it may expect to do in the future and in this city, the subject is one that I would not attempt to outline, because it is entirely dependent upon the combined effort of the growers what may be accomplished. If the Society goes forward as rapidly in the future as it has in the past it will accomplish a wonderful good for everyone engaged in the florists' business, not to speak of the great masses of people outside of the florists' trade who are interested in roses. My purpose of being with you is more to ask that the Florists' Club of Washington will give us that earnest support that we know that they will, feeling that in doing so we are helping each other. We want more members, not only florists but those outside of the trade, and in order to make the exhibition here a success let us bend every possible effort to increase the membership of the Society and stimulate the public interest in our efforts, and with your hearty co-operation we shall have without doubt the best meeting and most attractive exhibition even given by the Rose Society.

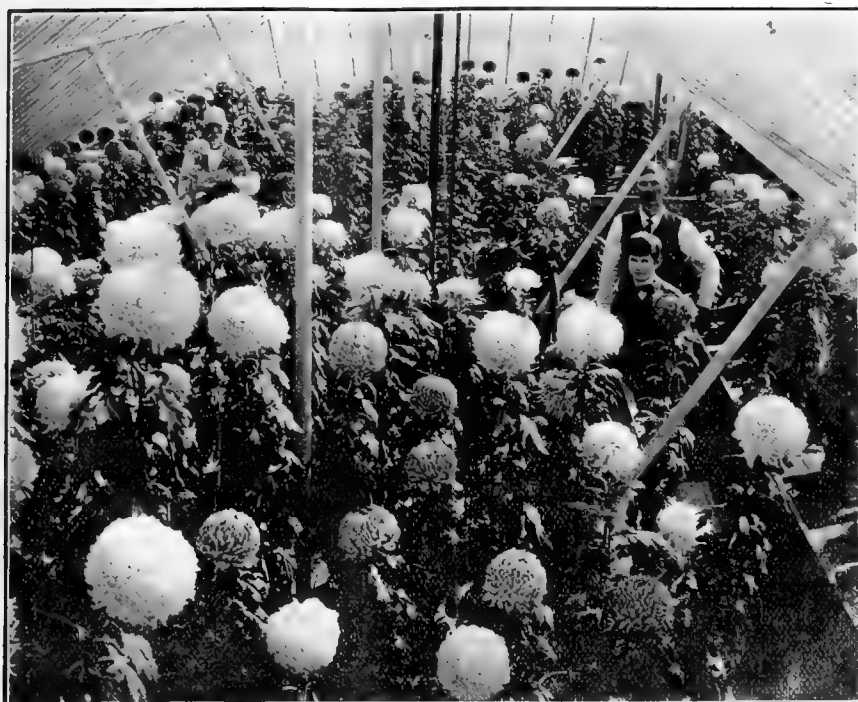
As to what we expect to do at the forthcoming exhibition in your city I am unable to give a list of the number of prizes to be offered, but you may depend upon it that there will be a splendid showing. In Boston, if I recall properly, we had about fifty prizes, cups and in cash, with over one hundred competitors. Our president, Mr. Simpson, at the meeting of the Executive Committee a few days ago in New York informed us that there would be more prizes of greater value offered this year than ever before, and this list will be ready for publication in a very short time. It is yet early for entries, but with your co-operation I feel safe in saying that this will be one of the greatest exhibitions ever held in this country. I would specially ask that if possible the Washington society people be asked to donate some special premiums, to be published in the supplementary list, in order that we may secure their hearty co-operation in bringing the attendance up to the highest mark.

I shall be glad to answer any questions I can in regard to the number of vases required, the height of the benches, and give such information as I have at command, and before closing these remarks let me again urge your club to give us the very best hand you can in order to push the good work forward, so that it may be said that the Washington exhibition far outshone that which has become so famous held in Boston last year.

If there are any present who are not members, now is the time to get aboard and get a seat in the prow of the boat, even though, as Mr. Montgomery has said, you do get splashed with an occasional wave.

He stood and gazed despondently at the benches crowded with plants all overgrown and lank. "The postman brings bills but no orders. For weeks not an order has come in." Who was he, so unfortunate? *Only a man who doesn't advertise.*

AN AMATEUR WITH A RECORD.



Most of us have heard of, and some of us have seen, the cottage gardens of England and Scotland, and remember with delight the geraniums, fuchsias and gladioli that the shoemaker found time to bring to perfection in his kitchen window. We have heard of the amateur exhibitions of plants, cut flowers and bouquets, and the fine collections of vegetables, exhibited by mechanics or laborers, and all tended before and after a ten-hour work day.

As a boy in Scotland I have pleasant recollections of James Nichol, stone cutter, the subject of this sketch, then in the prime of life, working in his garden, a piece of rented land a mile distant from his home. Morning and evening he dug every foot of it with a spade, planted his potatoes with a dibble. Leeks, cauliflower, cabbage, peas, parsley, etc., were the usual crop of vegetables; strawberries and gooseberries for fruit, grew to great size and perfection in that climate. And, besides, the usual collection of herbaceous plants and dahlias that were dahlias, always had a place in some of the borders. He was one of the many who did such things for the love of it and the sport of competition at the annual horticultural shows. Mr. Nichol came to America in 1872. The next that I saw of him was in Quincy, Mass., in 1884. He was still working at his trade and tending his garden in spare moments. The first thing that attracted my attention was a circle of carpet bedding on his small but well-kept lawn, while in the rear besides some fine fruit trees and a vegetable garden was a hotbed of six sash—something not usually seen in the back yard of our American working man. One would suppose that after laboring all day in our excessive summer heat that this, without counting in the short twilight and the troublesome mosquito would have dampened his ardor, but it is his way of resting himself, and for

this last ten years he has been resting himself growing chrysanthemum blooms for exhibition.

Commencing with an ordinary sash house he grew some elegant single-stem plants which it required a good deal of pressure to induce him to exhibit, but his first attempt brought several first and seconds and all the old zeal and sporting blood was set in motion. Up went the modern house shown in the photograph. Ever since he has been a successful exhibitor at every chrysanthemum show held in Boston. This picture shows Mr. Nichol and three generations of Nichols. One face is absent that should be there if it were not for the retiring modesty of its possessor—a face so sweet and pretty yet that one readily concludes that fifty years ago Mr. Nichol had good judgment and an eye for the beautiful. Any reader must know that a house of blooms like that shown herewith did not take care of itself all day; some one had to keep an eye on the temperature and of course that someone had to be very much interested to know how.

It is not surprising that when the city of Quincy required a capable superintendent for their cemetery they turned to this man who had always been known among them for his skill in horticulture, whose cottage and garden had been a model for others, and persuaded him to accept the situation. And those who saw the cemetery then and have seen it every year since are not surprised that Mr. Nichol gets his re-appointment without question as the years come and go. We, in the vicinity of Boston, all know him. He is a useful and enthusiastic member of our club.

It would be interesting to know whether there is now or ever was in the United States another man working steadily at his trade who has a modern greenhouse in his back yard for his amusement and who grows and

competes at the horticultural shows. Many a toiler after this world's goods in the spirit of our American commercialism, may say: "That's all right, but what has he got out of it?" Well, not dollars, that's certain; but something better, health and a good healthy ripe old age. He is as rugged yet as the granite that he hammered for 40 years and would not change places with John D.

GEO. M. ANDERSON.

CLUB AND SOCIETY NOTES.

The Illinois State Florists' Association will hold a meeting and exhibition at Bloomington, on February 19 and 20.

The schedule of prizes offered by the North Shore Horticultural Society, Manchester, Mass., for the year 1907 has been issued. The rose show will be held in June and the summer show in August. Copies of the schedule may be obtained by addressing the secretary, James Salter.

The Tennessee State Nurserymen's Association held their annual convention at Nashville on January 30. A committee was appointed to secure an increased appropriation for the state entomologist; legislation looking to the preservation of the forests was recommended. The officers were re-elected. A smoker in the evening closed the meeting.

The Alabama State Horticultural Association held its fourth annual meeting in Montgomery on February 6. Among the speakers were P. J. Berckmans, Augusta, Ga., on "Shrubs and Vines for Home Planting"; W. B. Peterson, Jr., on "Roses and Their Culture"; Prof. W. T. Clarke and Dr. E. Mead Wilcox of Auburn. W. F. Heikes of Huntsville and R. S. Mackintosh of Auburn have been president and secretary respectively of the society since its organization.

PERSONAL.

R. H. Tacke has been appointed superintendent of parks at Lexington, Ky.

Wm. Donaldson succeeds the late James Braik in the park department at Buffalo, N. Y.

Israel Rosnosky, representing H. F. Michell, Philadelphia, has been canvassing the Boston trade this week.

S. S. Skidelsky has been hustling in Detroit for the past few days. Andrew Ramsey of Newport, R. I., was a recent visitor.

Robert Boeck of Hyde Park, Cincinnati, Ohio, was terribly injured February 4 by being dragged a long distance by his runaway horse that he was taking out for exercise.

Visitors in Newport: Thomas J. Grey of Boston, W. N. Campbell, John S. Hay, of H. A. Dreer Co., Philadelphia; Mr. Folger, of the "Bonnie Brae" Nurseries, New Rochelle, N. Y., and John R. Clark of West Roxbury, Mass.

EXPERIENCE WITH THE CARNATION.

(Abstract of a Paper Read Before the Florist Club of Philadelphia, by John E. Haines.)

Mr. Haines read a very interesting and practical paper on the above topic on February 5. He told of his earlier experiences in horticultural pursuits and the building of his first greenhouse for lettuce and radish growing, his success in this line and the addition of other houses from time to time until the limit in lettuce growing had been reached and the perusal of the horticultural trade papers had started the carnation bee a-buzzing in his bonnet. One interesting statement was to the effect that a package of carnation seed which was received from the free-seed department at Washington was the beginning of the strain from which has developed the progeny with which his name is commercially connected. He said:

"The Government stock came mostly in bull-heads and single blooms. There were also a few very fine plants, possessing fine stems and vigorous growth amongst them." We hybridized these with the following standards: Jubilee, Crane, Wm. Scott, Lizzie McGowan, New York, Albertini, etc. I was very successful and got numerous good ones. Would raise them for a while, discover some bad trait, then discard them. Kept on trying and discarding until I secured enough stock of seedlings of my own, which, compared with the standard varieties I had on the place, were superior to those in my opinion."

Mr. Haines told of his first venture at the exhibition in Brooklyn and his experiences in common with all who exhibit at the flower shows—the elation of success or the discouragement and subsequent determination to yet excel, when failure was recorded. Continuing he said: "The soil on my place is a heavy clay. I prepare it by making compost. Have never had experience in growing carnations in a sandy soil, but I believe it can also be prepared in compost to grow carnations equal to those grown in clay soil. It may even do better. In feeding the plants I begin as soon as I have fire in the house. Feed them lightly now and then and keep them on the move. I do not use the liquid manure; I use sheep manure, bone flour, air-slacked lime and wood ashes."

"Have not kept a night fireman except on extremely cold nights. Run my houses between 45 and 52 degrees. In one of my houses I have taken out the partition on one side for growing violets. The temperature of this place is usually about 45 degrees when the others are 50 degrees. Here I always have been growing carnation John E. Haines. I find that in this house the best flowers are produced and yet the plants are very prolific."

"The troubles connected with the raising of this flower I have also met with and have been kept busily fighting. One of these at one time was stem rot. There are many different opinions on this question; I will give you the experience I had in one year. In the fall I buried vegetables, such as turnips, radishes, beets, etc. In the spring time, when the ground was prepared for planting, there were still in a certain patch vegetables that had either rotted or frozen, also some salt

hay, which had been used for covering bulbs and tomato vines grown the previous year. Here I planted my young stock of carnations. The plants raised on this patch suffered with stem rot. It was peculiar that only these plants were infected. Those which did not get it in the field got it after planting in. This taught me that I must be very careful not to have any decaying or fermented matter around the place. I have since been very strict in the matter of cleanliness. All refuse must be taken away immediately and surroundings must be kept sweet and clean. I have used air-slacked lime occasionally for this purpose.

"As to rust, I find that by taking the best of care of the plants, beginning at the time of planting in and using all the precautions that would be used if they were infected right along, this trouble will seldom appear at all. 'An ounce of prevention is worth a pound of cure.' My plants are watched closely and if any show the least symptoms of it the infected leaves are at once taken off."

"To avoid thrips and green fly, the plants are sprayed with Nicotidine, say once a week, but precaution is used in choosing a bright day for the work. This treatment I also begin as soon as plants are put into the house, and find it more successful than smoking."

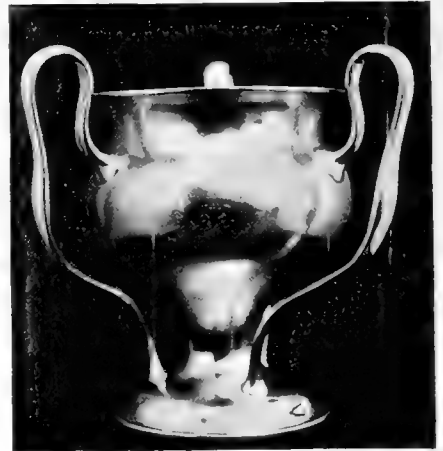
LIBRARY NOTES.

A Book of English Gardens by M. R. Cloag. (Methuen & Co., London.) In my first contribution to HORTICULTURE under the heading of Library Notes, reference was made to a handsome art volume in folio entitled "Some English Gardens." The somewhat attractive and prettily illustrated book now under review is in a like way devoted to English gardens and contains many charming little pictures in the best style of color printing but the places dealt with by the author are entirely different from those referred to in the larger work. Abbotsbury, Albury, Ampthill, Ashbridge, Brownsea, Hatfield, Holland House, Knoll, Sutton Place, and Wrest are among the gardens selected for treatment. The artist is Miss K. M. Wyatt whose series of 24 bright little water color reproductions largely introduce the houses as a fitting background to many of the gardens depicted. The book is neatly and tastefully bound in cloth, gilt; it contains 340 pages. The opening pages are devoted to an historical account on gardens beginning with reference to Egypt and Babylon, and passing onward through the days of ancient Rome down to later times, chiefly in England. The frontispiece is a view of Holland House and garden, and is an instance of what may be accomplished in a great metropolis in the way of the gardening art. "The Terrace, Albury," is a pretty little bit of work and so too is "The Terrace, Brownsea." A genuine piece of English rural scenery is "a cottage garden, the Isle of Wight." Very effective is "the terrace border, Ham House," and it makes a metropolitan amateur wonder how the country gardener can secure such a display of hardy herbaceous flowers as we sometimes see in the pictures of the grand old country gardens. "Rhododendron Knoll" is another exquisite little floral gem.

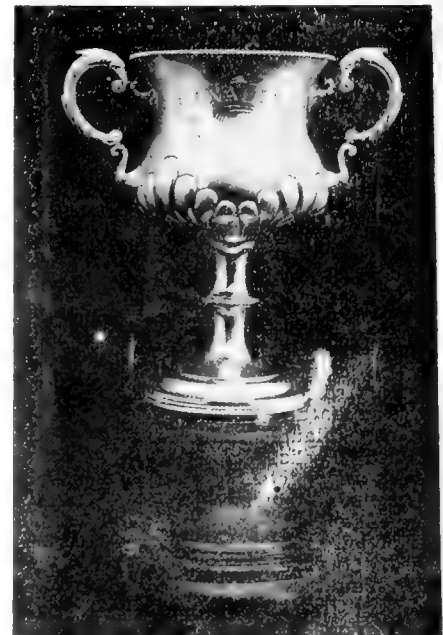
C. HARMAN PAYNE.

TWO CANADIAN TROPHIES.

Herewith we take pleasure in showing illustrations of two of the nicest cups competed for at the meeting and exhibition of the American Carnation



Society at Toronto, Canada, last month. The Canadian Horticultural Association's trophy was offered for the best six varieties of carnations, fifty blooms of each. The Montreal Gardeners' and Florists' cup was pre-



sented for the largest and best display of carnations in the exhibition. Both cups were worthily won by the F. R. Pierson Company of Tarrytown and Scarborough, N. Y., and Mr. Pierson is justly proud of them.

A CORRECTION.

In the paper by R. O. King, published in last week's HORTICULTURE, a line was accidentally dropped out of the first column on page 165. It should read as follows, the missing words being those within the brackets: "The glass people say that the workmen do not like to make [greenhouse sizes because they can make] more money on larger sizes."

OBITUARY.

George A. Sutherland.

George A. Sutherland, wholesale florist of Boston, died suddenly on the morning of February 11. Mr. Sutherland was born on December 14, 1865, in the parish of Bohann, County of Elgin, Scotland. At the age of 13 he came to this country and lived in Athol, Mass., where his father and brother carried on a florist business. When about 21 years of age he entered the employ of W. J. Stewart in the wholesale business in Boston, and five years later, in partnership with Lucius Peck, purchased the business of Mr. Stewart. Mr. Peck dying the following year, Mr. Sutherland came into possession of the business, and for some years conducted it successfully, but latterly came into financial difficulties, which, preying on his mind, are presumed to have hastened his death. Mr. Sutherland was a man of kindly heart and had many sincere friends in the trade. He leaves a widow.

John P. Loftus.

John P. Loftus, a well-known gardener at Mt. Hope Cemetery, Boston, died on February 11, aged 68 years. Mr. Loftus was a fellow-employee with Jackson Dawson at the old nurseries of Hovey & Co., at Cambridge, and, like Mr. Dawson, enlisted in the 19th Mass. regiment at the opening of the Civil War, he serving in Company K and Mr. Dawson in Company G. Mr. Loftus was wounded and discharged but later went into the navy. On his return he resumed his gardening employment at Lenox, Mass., and remained many years until his health broke down. In recent years he has had charge of the tropical plant department at Mt. Hope Cemetery under superintendent J. H. Morton.

Mrs. Mary Somers.

Mrs. Mary Somers, wife of Harry C. Somers, a well-known grower of Washington, D. C., died at her home on Chain Bridge Road on Monday, 11th inst., after a long illness. Mrs. Somers is the only daughter of Solomon Davis, who with his three sons, has for a number of years been successfully engaged in growing violets and miscellaneous plants. Deceased was 60 years of age, and is survived by husband and one son. We tender our sympathies to the bereaved families.

John Brick.

John Brick, a retired florist, died in Franklin, Mass., on February 1, aged 65.

BUSINESS CHANGES.

J. B. Steussy has opened a retail store at 417 E. Market St., Louisville, Ky.

Huebner & Brown have opened a retail flower store on Washington street, Chicago.

John H. Bath, formerly with A. Donaghue, has opened a retail store in Omaha, Nebr.

Mr. Reynolds retires from the Scott Floral Co., at Denver, Colo., and will locate on the Pacific Coast.

The Benthly-Coatsworth Company

NEW DRACAENA PERE CHARON.

Foliage twice as large as that of *D. terminalis* and equally brilliant in color.



have moved to the second floor of the Atlas Building, Chicago.

The Gallup Floral & Seed Co. will soon be in their new quarters at 819 Sixteenth St., Denver, Colo.

W. H. Fickett has purchased the establishment known as LaRochelle, 21st St. and 8th Av., New York.

Dunn & Huebner, Chicago, have dissolved partnership and the business will be carried on by Henry C. Dunn.

The Garden, Tarkington Baker, manager, will soon be ready for the retail florist business in Indianapolis, Ind.

The Elmwood Select Nursery under the management of Frank Brown, is a new concern located at Paynesville, Minn.

C. W. Archer has purchased the dahlia business of W. W. Hathaway of Brockton and has combined it with his business at Middleboro, Mass.

Miss Anna J. Schulte has again appeared in the arena of the retail trade and displays her shingle at the department store of Partridge & Blackwell, Detroit.

H. G. Dilleuth opened his new store on Spadian Avenue, Toronto, Can., on February 2, with an orchestra and superb decorations as attractive features.

Under the name of the Ozark Nursery Co., Ben Davis will continue the business of the Ben Davis Nursery of Bentonville, and the Parker Nurseries, at Fayetteville, Ark.

At a meeting of the directors of the Conard & Jones Co., West Grove, Pa., called after the death of the president, A. F. Conard, a reorganization was effected by electing Mark Hughes of West Grove a director, and officers as follows: President, Robert Pyle; vice-president, Antoine Wintzer; treasurer, S. Morris Jones; secretary, R. T. Satterthwait.

LIST OF PATENTS.

Issued January 15, 1907.

- 841,708. Weeding Hoe. John McClure, Weatherby, Mo.
- 841,930. Draft-Equalizer. William R. Campbell, Little York, Ill.
- 842,119. Weed-Cutter. Hermon C. Scott, Ritzville, Wash., assignor of one-half to W. W. Zent, Ritzville, Wash.

Issued January 29, 1907.

- 842,165. Plow. Howard A. Beham, Renfrow, Okla.
- 842,172. Manure Spreader. George E. Camp, Utica, N. Y., assignor to Standard Harrow Co., Utica, N. Y.
- 842,180. Steam Heating System. Thomas F. Dexter, Providence, R. I.
- 842,194. Fertilizer Distributor. William A. Freeman, Sycamore, Ga.
- 842,199. Grass Cutter. Bert H. Herrick and Frank Cleary, Rugby, N. D.
- 842,208. Side Delivery Hay Rake. Fred L. Kirkman, Glenwood, Mo.
- 842,214. Hot Bed Frame. Wilhelm H. Luckau, Magdeburg, Germany.
- 842,223. Reversible Harrow. Leonard B. Metcalf, Spartanburg, S. C.
- 842,228. Seeder. Robert H. Mouser, Jr., Crown, Texas.
- 842,378. Oscillating Blade or Fish Tail Propeller. George E. Wade, London, England.
- 842,420. Weed Cutter. Otis O. Petty, Olney, Ill.
- 842,501. Window Plant Box. August J. Schoenecke, Chicago, Ill.
- 842,658. Solar Heater. Charles L. Haskell, Boston, Mass.

Have You Read the Advertisements this Week?

SEED SOWING.

There are so many kinds of plants that can be raised from seeds sown at this time of the year that to some at least the methods adopted with success in the work of sowing and the preparations incident thereto may be of considerable interest if not in a measure helpful.

The first consideration is the procuring of seed of the best strains and varieties from reliable dealers whose reputations are a very fair guarantee, despite any disclaimers to the contrary, that what is purchased will turn out to be just what it was represented to be.

After the seed comes to hand and when the proper time comes (which for a great many things is the present) immediate preparations should be made for sowing. Seeds of the greater number of bedding plants should be sown in shallow flats or seed pans about 3 1-2 inches in depth. Drainage should be provided by first placing over the holes or spaces between the boards in the bottom, pieces of broken pots, and over them a layer of whole sod, well rotted, but wholly adhesive; then fill to within an inch of the top with good free soil, suitable for most seeds if composed of fibrous loam with a good sprinkling of leaf mould and sand unsifted. Over this place a thin layer of finely sifted soil of much the same nature as of which the main part is composed. It is very important that this last layer be made perfectly level in order that when water is applied, the fine seeds will not be washed to one side. Sow all seeds evenly over the surface and seeds that are of a gritty nature and moderately large as well as the larger seeds, ought to be covered with fine soil, but before doing that, press them down to bed in the soil with a clean board. Very fine seeds such as begonia and calceolarias, should not be covered with soil only pressed on the surface. When the sowing is satisfactorily done a careful watering will be in order with a watering pot with a very fine rose attached, after which, place squares of glass over the flats or pans, and put these in a warm part of a house where a gentle bottom heat is available. Very little water will be required for most kinds of seeds until they germinate, but the soil should never be allowed to get dust dry.

When the seedlings have appeared well over the surface, the flats or pans should be removed to where they can get full light and sufficient air. The best way is to place them on a shelf near the glass, but always taking care that at first they will not be suddenly subjected to draughts of cold air, otherwise they will very likely depart this life when only on the threshold of it.

After the seedlings are thus gradually exposed to sun and air and they have attained a size fitting them to be conveniently handled, it will be necessary them to prick them off into other flats filled with good soil, or pot singly into the smallest size pots. For most things, for the first moving, the method of transplanting into flats is the most practical in that usually a smaller percentage die than when the other method is adopted. Again, when the seedlings begin to crowd in the flats, it will be advisable in most cases

Begonias

Plant now to insure good saleable plants for spring sales.

	SINGLE			DOUBLE		
	Doz.	100	1000	Doz.	100	1000
Crimson	\$0.40	\$2.75	\$23.50	\$0.65	\$5.00	\$40.00
Orange	.40	2.75	23.50	.65	5.00	40.00
Scarlet	.40	2.75	23.50	.65	5.00	40.00
Pink	.40	2.75	23.50	.65	5.00	40.00
White	.40	2.75	23.50	.65	5.00	40.00
Yellow	.40	2.75	23.50	.65	5.00	40.00
Mixed	.35	2.50	22.00	.50	4.00	35.00

Gloxinias

A handsome lot of bulbs, large and sound, such as will give only the best results.

	Doz.	100	1000
Blue	\$0.60	\$4.00	\$35.00
Bordered Scarlet	.60	4.00	35.00
Bordered Blue	.60	4.00	35.00
Red and Scarlet	.60	4.00	35.00
Spotted	.60	4.00	35.00
White	.60	4.00	35.00
Choicest Mixed	.50	4.00	35.00

Fancy Leaved Caladiums

These are now largely used for decorative purposes, with other foliage plants, also excellent for table decorations. They cover a wide range of colored foliage.

Large Bulbs in named varieties
Mixed, all varieties

	Doz.	100	1000
	\$1.35	\$10.00	\$90.00
	1.00	8.00	75.00

SEND FOR OUR NEW COMPLETE WHOLESALE CATALOGUE

HENRY F. MICHELL CO.

1018 Market Street,

PHILADELPHIA, PA.

to pot them into pots of a size in proportion to the root they have made. When pricking off or potting seedlings for the first time, they should be shaded lightly until they get somewhat established. After all this, subsequent treatment comes much easier to the operator and also to the subjects operated upon.

D. MCINTOSH.

CATALOGUES RECEIVED.

J. G. Harrison & Sons, Berlin, Md.—Catalogue of general nursery stock.

Leedle Floral Company, Springfield, O.—Rosy Propositions for Spring, 1907.

Peacock Dahlia Farms, Atco, N. J.—Special catalogue of dahlia roots for 1907.

Maple Ave. Greenhouses, West Chester, Pa.—Surplus list of fruit and ornamental trees.

E. E. Stewart, Rives Junction, Mich.—1907 trade price list of gladiolus bulbs and hardy plants.

Mosbaek Greenhouse Company, Onarga, Ill.—Descriptive list of cannas, ferns and bedding plants.

E. Y. Teas Company, Centerville, Ind.—Wholesale price list of trees, shrubs and plants for 1907.

John R. Clarke & Co., Bellevue Greenhouses, West Roxbury, Mass.—Catalogue of plants, bulbs, shrubs and trees.

W. C. Krick, Brooklyn, N. Y.—Florists' immortelle letters and novelties, "Perfect" flower pot handle and hanger.

W. Atlee Burpee & Co., Philadelphia, Pa.—1907 wholesale price list for market gardeners and florists. Profusely illustrated.

Eromfield, Colvin, Rees Co., Bay City, Mich.—1907 wholesale quotations on fancy peas, beans and other vegetable seeds.

Harvey Seed Company, Buffalo, N. Y.—Annual catalogue of vegetable, field and flower seeds. A selected list of good things.

S. M. Isbell & Co., Jackson, Mich.—Farm and Garden Seeds. Devoted mainly to agricultural and vegetable garden seeds; very complete.

F. E. Conine Nursery Company, Stratford, Conn.—Spring and fall catalogue of general nursery and landscape gardeners' stock. Illustrations good and descriptive matter very complete.

Thomas J. Grey & Co., Boston, Mass.—Seed Catalogue for 1907. The usual good list of seeds and tools, with interesting addition of novelties and specialties in flower and vegetable seeds, dahlias, gladioli, etc.

HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items:

BUFFALO, N. Y.—E. C. Brucker, 385-87 Elliott St.
CLEVELAND, OHIO—A. L. Hutchins, 2220 East 74th St.
COLUMBUS, OHIO—M. B. Faxon, 246 Oak St.
CINCINNATI, OHIO—Frank W. Ball, 31 East 3d St.
DETROIT, MICH.—Frank Danzer, 1487 15th St.
INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.
LOUISVILLE, KY.—F. L. Schulz, Jr., 1325 Cherokee Rd.
MONTREAL, William Cooper, 338 St. James St.
NEWPORT, R. I.—David McIntosh, Ledge Road.
PHILADELPHIA, PA.—George C. Watson, Dobson Bldg., 9th and Market Sts.
SAN FRANCISCO, CAL.—Luther Monette, 806 Isabella St., Oakland, Cal.
ST. PAUL, MINN.—Gilbert L. Skutt, cor. Hoyt & Hamline Aves.
TOLEDO, OHIO—J. L. Schiller, 929 Prouty Ave.

BEGONIA VERNON

EXTRA FINE STRAIN

TRADE PKT. 25c.

Wm. Elliott & Sons

201 Fulton St., NEW YORK

PURE UNLEACHED HARDWOOD ASHES

Nature's plant food. The best fertilizer to build up the land. You get the best in the Joynt brand.

Write for prices to

JOHN JOYNT, Lucknow, Ontario, Canada.

New Orchid-Flowered Sweet Peas

These are a distinct "break" in Sweet Peas, differing from the standard sorts by the extraordinary size of their flowers, usually measuring 2 inches across, and by the standards being crinkled and wavy, while the wings are large and spreading. Another splendid feature is that a very large percentage bear four blossoms to the stem, which are long and strong. To sum up, they possess every characteristic that can be desired in Sweet Peas, and will undoubtedly supersede standard sorts of same color as soon as they become more plentiful.

Countess Spencer. A lovely clear pink, shading darker at the edges. 10c per oz., 25c per ¼ lb.
E. J. Castle. Rich carmine-rose, shaded with salmon, very striking, especially under artificial light. 17c per pkt., 5 pkts., 75c.

Frank Dilby. The largest and finest pale lavender-blue. 17c per pkt., 5 pkts., 75c.

Gladys Unwin. Charming shade of pale rose-pink; extra long stems and very valuable for cutting. 10c per oz., 25c per ¼ lb.

Helen Lewis. (Orange Countess) Brilliant orange-rose. 25c per oz.

Helen Pierce. This is the new gloxinia-flowered Sweet Pea, being marbled blue on a white ground, with the veins showing a little deeper exactly like a mottled Gloxinia. 15c per oz., 50 per ¼ lb.

John Ingman. Rich salmon-rose. 15c per oz., 50c per ¼ lb.

Mrs. Alfred Watkins. A superb pale pink similar in shade to the old Princess Beatrice. 17 per pkt., 5 pkts., 75c.

Nora Unwin. The finest white now in existence. 17c per pkt., 5 pkts., 75c.

Phyllis Unwin. A veritable giant among Sweet Peas; color a deep rose-carmine. 15c per oz., 50c per ¼ lb.

DREER'S GARDEN BOOK
and Florist's Catalogue
now ready and sent on appli-
cation to all florists.

Henry A. Dreer

714 Chestnut Street
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JUST RECEIVED

Highest Quality Flower Seeds

Write for Florists' Wholesale List.

Johnson Seed Company, 217 Market St., Philadelphia, Pa.

Herbert W. Johnson, of the late firm of Johnson & Stokes, President

GLADIOLI

Beautifully illustrated catalog, colored plate, etc., describing Groff's Hybrids, Named Novelties of rare beauty; Mixtures and Collections to color and fine Mixtures of all colors. Write for it.

ARTHUR COWEE

Gladiolus Specialist
MEADOWVALE FARM, BERLIN, N. Y.

W. & D. SPECIALTIES for FORCING

Mignonette, "New York Market," Sweet Peas, "True," Christmas Flowering, (pink and white) Tomato, "The Don," "Stirling Castle," Mushroom Spawn, "English" and "Pure Culture." Send for 1907 Catalogue.

Weeber & Don, Seed Merchants & Growers
114 Chambers St., New York

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY & CO.

32 & 33 So. Market St., BOSTON

(Northern Greenhouse Crown)

Asparagus Plumosus Nanus
Seed of the Highest Germinative Power

Per 100 seeds, 50c; Per 1000 seeds, \$3.50.
Per 5000 seeds, \$16.00

Asparagus Sprengerii, Per 250 seeds, 25c; Per 1000 seeds, 75c; Per 5000 seeds, \$3.00

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

BRECK'S HIGH GRADE FLOWER AND VEGETABLE SEED

FRESH STOCKS for the Florist, Market Gardener and Farmer. Catalogues on application
Joseph Breck & Sons Corp.
 47-54 NO. MARKET ST., BOSTON, MASS.

Comet Tomato

Those who force tomatoes should give "Comet" a trial. This variety has been the talk of gardeners around Boston the past season. Those who have seen it growing declare there's nothing to compare with it.
 Seed, \$5.00 per oz. Trade packet \$1.00.

WILLIAM SIM, Cliftondale, Mass.

RAWSON'S HIGH GRADE SEEDS

for the most critical

GARDENER, FARMER
or FLORIST

Catalogues mailed free

W. W. RAWSON & CO.
5 Union St., BOSTON, MASS.



PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a large supply of exceptionally fine quality.

For the Lawn,

The Greenhouse,

For the Herbaceous Garden,

For the Flower Garden,

For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,
6 and 7 So. Market St., BOSTON.

Thorburn's Seeds

... OUR ...

Wholesale Catalogue

for florists and market gardeners is now ready and will be sent free to all who ask for it.

NEW CROP flower seeds are mostly all on hand now and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

Cold Storage Lily of the Valley Pips. Best possible grade. 1000 in case at \$12.00 per 1000.

J. M. THORBURN & CO.

33 Barclay St., through to 38 Park Place
NEW YORK

NEW STOCKS

FLOWER SEEDS for FLORISTS

Wholesale Catalogue Ready. Send for it today. But first read our advertisement on page 105 in the Horticulture for January 26th, 1907. It is worth reading.

James Vick's Sons,
Seedsman. Rochester, N. Y.

Cauliflower & Cabbage

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

BRIDGEMAN'S SEED WAREHOUSE

RICKARDS BROS.
Props.

37 East 19th St., NEW YORK CITY

Handsome Than Ever Before!!

I have the finest lot of trained **Easter Ramblers** in the country and am now booking orders for their delivery at proper time. **Crimson Ramblers** in bush form, \$2 to \$3 each. **Baskets**, \$2.50 to \$12. **Chairs** \$8 to \$12. **Crowns**, \$5 to \$15. **Crosses**, **Pyramids**, **Umbrella**, **Automobile**, **Bicycle**, etc. at corresponding prices. **Dorothy Perkins Ramblers** in similar styles; also **Lady Gay Ramblers**, \$3 to \$5 each. **Baby Ramblers**, \$6 to \$9 per doz.

AZALEAS, ERICAS

On these specialties I have no superior. **Azaleas** are superb this year and the proportion of the popular but scarce pyramidal form is large. Quotations by dozen or hundred lots. We have the **Firefly** and **Chas. Enke** in quantity. **Ericas**, **Persoluta Alba**, **Cupressina**, **Cavendishii** and **Trans u-cens**, are splendid and every up-to-date florist should have them. **Hydrangeas**, **Oranges**, **Tulips**, **Genistas**, **Borcnia**, **Gardenias**, **Cyclamens**, **Daisies** and a host of other desirable things. Write for prices.

Anton Schultheis, College Point, New York

GERANIUM

Wholesale catalogue and price list contains descriptions of seventy-five of the best standard sorts and 100 imported novelties, sent free to trade only.

R. VINCENT, Jr. & SON
WHITE MARSH, MD.

GERANIUMS

Our selection \$18.00 per 1000, composed of the following varieties all to name: **S. A. Nutt**, **Poittevine**, **I. a Favorite Perkins**, **Brett**, **Viaud**, **Castellane**, **Deyle** and several others out of 2 1/4 in. pot, with or without soil.

	2 1/4 in. pot	Rooted Cuttings
	per 100	per 100
Fuchsias in variety	\$3.00	\$1.00
Heliotrope	2.50	1.00
Sweet Alyssum	2.00	1.00
Lobelia	2.00	1.00
Ageratum	1.50	.50
Rose Geranium	2.00	fine plants
Coleus in variety		.60
Coleus Golden Bedder		.60

Cash must accompany order.

J. E. FELTHOUSEN
154 Van Vranken Av., SCHENECTADY, N. Y.

WHAT WILL YOU OFFER
FOR
250 to 500 Spirea Gladstone?
WM. ELLIOTT & SONS
AUCTION DEPARTMENT
201 Fulton Street, - - New York

GOVERNOR HERRICK THE NEW VIOLET

Originated and introduced by
H. R. CARLTON, Willoughby, O.
We have the following stock in the finest condition to plant and now is the time to plant:
2 1/2 inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000
4 " " 2.50 " " 12 " 100 " 75 " 1000
It will pay you. Try it. Order at once.

In ordering goods please add "I saw it in HORTICULTURE."

JAPANESE
THE YOKOHAMA NURSERY CO.
31 BARCLAY STR. NEW YORK.
LILIES
PLANTS
BAMBOO STAKES

JAPAN LILIES

Pay well for LATE FALL BLOOM and Xmas. Plant Now.

		100	per case	
LIL. AURAT. —	6 x 8	\$4.00	200	\$ 7.00
	8 x 9	5.00	130	6.50
	9 x 10	6.00	140	8.25
LIL. RUBRUM. —	6 x 8	4.50	200	9.00
	8 x 9	6.00	160	9 50
	9 x 11	7.50		
LIL. ALBUM. —	8 x 9	7.00	160	11.00
	9 x 11	10.00		
LIL. MELP. —	7 x 9	6.50	160	10.00
	9 x 10	9.00		

Send for Catalogue.

H. H. BERGER & CO.
47 Barclay Street, - - - New York

—ORCHIDS—

Some of the varieties we shall import this spring:

Cattleyas, **Trianae**, **Labiate**, **Mossiae**, **Me delhi**, **Speciosissima**, **Gigas**, **Schroderae**, **Dendrobiums**, **Noile**, **Wardianum**, **Phalaenopsis**, **Vandas**, **Coeur la**, **Kimballiana**, **Oncidium**, **Varicosum**, **Laelias**, **Anceps**, **Autumnalis**, **Albida**. Write for prices on above.

CARRILLO & BALDWIN, SECAUCUS, N. J.

ORCHIDS Importations, 1907
Save money and get our quotations on **Cattleya labiate**, **Trianae**, **Percivaliana**, **Mossiae**, **Mendellii**, **Schroderae**.

JULIUS ROEHRS CO.
Largest Orchid growers and importers in U. S.
RUTHERFORD, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

Sander, St. Albans, England
and 235 Broadway, Room 1
NEW YORK CITY

ORCHIDS

Arrived in exceptionally fine condition the following **ORCHIDS**: **LAELIA PURPURATA**, **CATTELEYA HARRISONIAE**, **C. INTERMEDIA**, **C. TRIANA**, **C. LEOPOLDII** and many more.

Write for Prices

LAGER & HURRELL, SUMMIT, N. J.

ORCHIDS Direct from the Collectors
For Spring and Summer Delivery

We are giving quotations upon our entire list of South American, Philippine and East Indian Orchids. Choice varieties of **Cattleyas**, **Odontoglossums**, **Pilumna**, **Cypripedium**, **Phalaenopsis**, **Dendrobiums** and **Vandas**. Among them the very rare **Vanda Sanderiana** for delivery June or July.

A. HELD, 11-19 William St., New York

Watch the Orchid Advertisements next week.

Azaleas for Easter

From 50c. to \$5 in all colors

Also a fine lot of **Palms** in all sizes, such as **Kentias**, **Arecas**, **Latianias**, **Phoenix** and **Cocos**. **Pandanus Veitchii** and **utilis**, **Crotons**, **Dracaenas**, **Nepenthes**, **Aralias**, **Araucarias**, **Aspidistras**, **Ferns** suitable for dishes, in leading varieties. **Cibotium Schiedel** from \$1.00 to \$3.00 each.

Wholesale Price List on application.

A. LEUTHY & CO.,
Importers and Exporters, Growers and Dealers,
Perkins St. Nurseries, Roslindale,
BOSTON, MASS.

ARAUCHARIA COMPACTA ROBUSTA, have only fine plants: 6 to 7 in. pots, 20 to 30 in. high, 4 to 5 years old, 3, 4, 5 tiers, \$1.50, \$1.75, \$2.00 each.

A. EXCELSA GLAUCA, 6 in., \$1.00, \$1.25, \$1.75; 7 in. specimens, finest in the world, \$2, \$2.50, \$3 each.
KENTIA FORSTERIANA, 6 in., 25 to 40 in. high, 75c, \$1, \$1.25 each; 7 in., made up, \$1.75, \$2 each.
SCOTTII FERNS, 8 in., as big as a washtub, \$1.25, \$1.50, worth \$3; 5 1/2 in., 40c.; 6 in., 50c.
BOSTON FERNS, 6 in., 50c.

Cash with order. Goods travel at purchaser's risk.

GODFREY ASCHMANN,
Wholesale Grower and Importer of Pot Plants
1012 Ontario St., PHILADELPHIA, PA.

WHITMANI

2 1/4 inch, \$10 per 100

BOSTONS

2 1/4 inch, \$3.00 per 100

H. H. BARROWS & SON Whitman, Mass.

Nephrolepis Whitmanii, strong plants from 2 1/2 in. pots, \$10.00 per hundred.

Nephrolepis Elegantissima, 2 1/2 in. pots, \$5.00 per hundred.

P. R. QUINLAN,
SYRACUSE, N. Y.

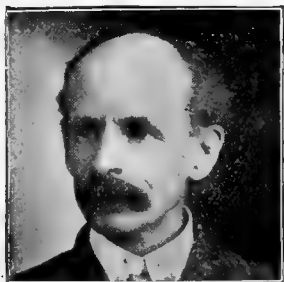
FINEST BULBS, NURSERY STOCK, PALMS, AZALEAS, BAYS, ROSES, BUXUS, EVERGREENS, and LILY OF THE VALLEY "EXCELLENTA" and "SUPERIOR."
JOHN SCHEEPERS & CO., New York City

Asparagus Robustus

The best of all **Asparagus** for a pot plant, strong three inch stock at

\$6.00 per 100, \$50.00 per 1000

ALBERT M. HERR, Lancaster, Pa.



CALDWELL THE WOODSMAN,
Introducer of the Wild Smilax.

Wild Smilax, \$2.50 per case.

THE ONLY PLACE WHERE YOU CAN ALWAYS GET IT.

Long Needle Pines, \$1.00 per dozen. Palm Crowns, \$2.50 per dozen. Extra nice long-stemmed Palm Leaves, \$2.50 per 100. Magnolia, \$2.50 per case, 16 cubic feet. Sheet Moss, \$2.00 per sack. Grey Moss, \$2.00 per sack. Galax, \$1.00 per 1000.

Speed a Specialty.

Write for Catalogue.

Caldwell the Woodsman Decorating Co., Inc., EVERGREEN, ALA.

ROSES
VIOLETS

GARDENIAS

CARNATIONS
VALLEY

AND ALL OTHER CHOICE FLOWERS

In our WHOLESALE COMMISSION FLORISTS' DEPARTMENT in addition to our regular wholesale EVERGREENS and FLORISTS' SUPPLIES

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. and 9 Chapman Place, Boston, Mass.

See our Greens Advertisement on page 209.

L. D. Telephone, Main 2618.

NEWS NOTES.

The weight of snow is responsible for \$200 damage at the Kingman greenhouses, Middleboro, Mass., recently.

The greenhouses of Rev. H. P. Fleming, Orange, N. J., were destroyed by fire on February 10.

A greenhouse belonging to Mrs. C. D. Kingman, at Middleboro, Mass., was crushed by the heavy snow last week.

John D. Rockefeller, it is said, will lay out in front of his mansion at Pocantico Hills extensive Italian and French gardens.

About twenty of the florists of Springfield, Ohio, visited their brother florists in Urbana on the evening of February 6.

Mr. Gerlach, in charge of the greenhouses at Mitchell Park, Milwaukee, Wis., has invited the public to inspect the orchids and azaleas which are especially beautiful at this time.

Civil service examinations are to be held in Boston on February 27 for farmers in the Indian service, salary \$600 and \$720; March 6, for French translator in the Department of Agriculture, \$1500.

The opening of a new department store in Detroit recently was the occasion for a large display of floral gifts estimated to have cost nearly \$2000 in the aggregate. Detroit seems to be all right.

The friends of the school children of Washington, D. C., are hoping that the item of \$1,000 appropriated for school gardening will be restored by the Sen-

ate to its place on the Bill from which it was stricken by the House.

It is reported that Col. Oliver Payne of New York has purchased the Garland estate on Prudence Island, Newport, R. I. This estate is very extensive, comprising a good part of the whole island.

Mr. F. R. Proctor of New York has just purchased Southwick's Grove in Middletown, R. I.—a place which has long been famous as a picnic ground. In the hands of the new owner it will be improved and turned into a handsome residential estate.

The South Park Floral Co., New-castle, Ind., are reported to be looking for a building site in the suburbs as business has centered around their present location and the land has become very valuable. Their removal will be gradual, as new greenhouses are required.

Protest was made by Alex. Murphy & Co. against the assessment of duty by the collector of customs at the port of Philadelphia on cycas stems, classified as nursery stock under paragraph 252, tariff act of 1897, claiming that these goods should be free of duty under paragraph 552, as palm leaves in their natural state. Protest has been overruled by the general appraisers.

Protest of J. L. Hopkins & Co. against the assessment of duty on pumpkin seed by the collector of customs at the port of New York, has been overruled.

BUSINESS EMBARRASMENTS.

George Vaselos, florist and confectioner of 3102 Third avenue, New York, has been petitioned into bankruptcy.

Burnet Galloway, dealer in seeds, Syracuse, N. Y., has filed a petition in bankruptcy; liabilities, \$21,738; assets, \$7,500.

GREENHOUSES BUILDING AND CONTEMPLATED.

Additions.

Denver, Colo.—N. A. Benson, additions.

Pueblo, Colo.—G. Fleischer, ten houses.

Appleton, Wis.—B. Zuelke & Co., one house.

Princeton, N. J.—Stockton & Howell, one house.

Baltimore, Md.—T. Walter Gray, one house, 18x90.

Brookville, Ind.—Martin Weber, one house, 50x120.

Secane, Pa.—Philadelphia Carnation Co., additions.

Belle Haven, Ct.—C. A. Moore, one house, 60 feet.

Westfield, Mass.—Henry Barton, one house, 100x150.

Milwaukee, Wis.—W. W. Thompson & Sons, one house, 20x30.

Los Angeles, Cal.—J. W. Wolfskill, two rose houses, 300 ft. each.

Holdrege, Neb.—W. E. Davidson, three houses, 10x1000, 27x100, 6x100.

South Bend, Ind.—South Bend Floral Co., six houses, each 30x90; potting shed, 26x90.

Have You Read the Advertisements this Week?

Czar Cannon, ruler of the House of Representatives and dictator of legislation, still refuses to admit the Appalachian and White Mountain forest reserve bill, despite the urgent solicitation of the governors of the states affected directly or indirectly and in defiance of the solid sentiment of the southern and eastern Atlantic States. Speaker Cannon's action, if persisted in, means a loss to the people which cannot be computed in dollars. The fate of this measure, passed by the Senate, endorsed by the President, and beyond question sure of a passage through the House, is an example of what one man's power may become in our present system of law-making. —New England Homestead.

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for Samples.

E. A. BEAVEN, Evergreen, Ala.

PHILADELPHIA NOTES.

Mr. Faust of the Pennock-Meehan Co. has not yet (12th inst.) reached the crisis of the typhoid attack, but is regarded by his physicians as having a good chance to weather it.

Lent does not cut so much of a figure here as it used to. There are plenty of weddings and other functions in sight to keep the trade busy. After the first three or four days things get back to normal.

Mr. Peacock states that the report of the fire at his home last week was incorrect. On further investigation we find the disaster was at the house of his partner. Our expressions of sympathy are therefore just as much in order.

Jno. H. Dodds, the superintendent at the Wanamaker country home, was in town when the fire broke out. The mansion was completely destroyed, causing fifteen hundred thousand dollars' damage. The strenuous life led by Mr. Dodds in getting home and the exciting work following would fill a volume to recite. It was a case of salvage; no water; plugs all frozen.

Wm. C. Smith disagrees with J. D. Eisele of Dreer's in regard to Boston and Scotti ferns. As I remember it, Mr. Eisele could grow 25 per cent. more Scotti in the same space. Mr. Smith says he can grow more Bostons in the same space without losing their leaves. This is an interesting problem and according to the rules of debate Mr. Eisele has the first say, but he has to give particulars. After that Mr. Smith can follow with his points.

The Dumont store has been rented by Berger Bros. Messrs. Berger will refit and improve the interior and expect to move in by March 1st. With the well known energy and enterprise of Messrs. Berger things ought to hum once more at 13th and Filbert—having been pretty dead there since the removal of the market to Pennock's.

The event of this week in wholesale circles has been the opening of the new Niessen store. They have been visited by hosts of old friends and customers to wish them good luck and to admire the up-to-date arrangements for the efficient dispatch of business, from the ice making plant in the basement to the offices and supply departments on the upper floors. The address is now 1209 Arch St.

Send orders for flowers for delivery in

BOSTON and all NEW ENGLAND POINTS to

THOS. F. CALVIN
124 Tremont St., Boston

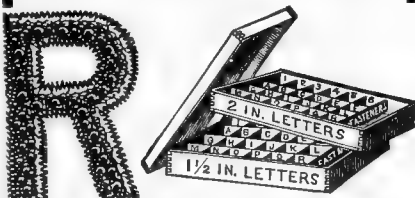
The Park Floral Co.

J. A. VALENTINE
Pres.

DENVER, COLORADO

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

JOHN BREITMEYER'S SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada

P. J. HAUSWIRTH

Temporarily Located
at

**13 Congress Street
CHICAGO**

AUDITORIUM ANNEX Tel. Harrison 585

SAMUEL MURRAY Florist

Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO
Both 'Phones 2670 Mafn

FRED C. WEBER FLORIST

4326-28 ST. LOUIS, MO.
OLIVE STREET Established 1873
Long Distance Phone Bell Lindell 676

WILLIAM L. ROCK Flower Co.

KANSAS CITY, - MO.
will carefully execute orders for Kansas City and any town in Missouri or Kansas.

Have You Read the Advertisements
this Week?

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

571 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"



WASHINGTON,
D. C.

GUDE'S

Geo. H. Cooke FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

William J. Smyth FLORIST

Cor. Michigan Ave. and 31st St., CHICAGO
We ship to all points in Illinois and Iowa.
Phones: Douglas 744, Douglas 523, Douglas 740

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON
TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N. Y.

Theodore Miller FLORIST

Long Distance Phones: Bell, Forest 56; Kinloch, Delmar
4832 Delmar Boul. ST. LOUIS, MO

Acacia pubescens Fancy Freesia Golden Spur

LEO NIESSEN CO. WHOLESALE FLORISTS
1209 Arch St., PHILA.
Store open from 7 A. M. to 8 P. M.

ACACIA PUBESCENS 25c to 75c per spray
WHITE LILAC 50c. per bunch
Regular quality
WHITE LILAC \$2.00 per bunch
Extra quality (the finest coming to Phila.)
WHITE VIOLETS \$1.50 per 100

S. S. PENNOCK-MEEHAN CO.
THE WHOLESALE FLORISTS OF PHILADELPHIA
1608-1618 LUDLOW ST. Store closes at 8 p. m.

AMERICAN BEAUTY

and all other Roses

LILY OF THE VALLEY CARNATIONS

WELCH BROS.

226 Devonshire St., BOSTON, MASS.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

EVERYTHING SEASONABLE IN CUT FLOWERS

EDWARD REID. Wholesale Florist
1526 Ranstead Street, PHILADELPHIA
Store Closes 8 P. M.

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

PETER REINBERG WHOLESALE

CUT FLOWERS

51 Wabash Av., Chicago, Ill.

In writing advertisers, mention Horticulture

RED TULIPS

W. E. McKISSICK

Wholesale Florist

1221 Filbert St., PHILADELPHIA

PITTSBURG FLORISTS' EXCHANGE

217-219-221-223 Diamond St.
PITTSBURG, PA.

Largest Wholesale House Between
New York and Chicago.

FANCY WHITE LILAC

Ready January 20th.

Beautiful Carnations. Violets

Superb Illustrated Supply Catalogue just
out. Send for one.

A. L. RANDALL CO., 19-21 Randolph St.
CHICAGO.

DAILY CONSIGNMENTS

From 40 to 60 Growers

We can care for your cuttler wants to
advantage.

E. F. WINTERSON CO.

45-47-49 WABASH AVE., CHICAGO

ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting
especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building

28 STATE ST., BOSTON
Telephone, Main 38

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO February 11	ST. LOUIS	PHILA. February 12	BOSTON February 14
ROSES				
Am. Beauty, Fan. & Sp.	40.00 to 50.00	..... to	90.00 to 100.00	75.00 to 100.00
" Extra.....	25.00 to 30.00	..... to	50.00 to 75.00	50.00 to 60.00
" No. 1.....	12.00 to 15.00	..... to	40.00 to 50.00	20.00 to 25.00
" Lower grades.....	8.00 to 10.00	..... to	10.00 to 15.00	8.00 to 12.00
Bride, "Maid, Golden Gate, F. & S.	12.00 to 15.00	..... to	15.00 to 20.00	12.00 to 15.00
" " " " " No. 1 & Ex.	8.00 to 10.00	..... to	12.00 to 15.00	8.00 to 10.00
" " " " " low grades.....	6.00 to 8.00	..... to	5.00 to 10.00	4.00 to 8.00
Liberty, Richmond, Fan. & Sp.	12.00 to 18.00	..... to	40.00 to 50.00	20.00 to 35.00
" Lower grades.....	6.00 to 8.00	..... to	10.00 to 20.00	6.00 to 12.00
Chateaux, Morgan, Fan. & Sp.	12.00 to 15.00	..... to	15.00 to 20.00	12.00 to 15.00
" Lower grades.....	6.00 to 8.00	..... to	5.00 to 12.00	6.00 to 8.00
Killarney, Wellesley, Fan. & Sp.	15.00 to 20.00	..... to	15.00 to 20.00	12.00 to 15.00
" Lower grades.....	8.00 to 12.00	..... to	5.00 to 12.00	6.00 to 8.00
CARNATIONS				
Fancy.....	4.00 to 5.00	..... to	6.00 to 8.00	3.00 to 4.00
Ordinary.....	2.00 to 3.00	..... to	3.00 to 5.00	2.00 to 3.00
MISCELLANEOUS				
Violets, Double.....	.75 to 1.00	..... to	1.00 to 1.25	.50 to .75
" Single.....	.75 to .....	..... to .....	.50 to 1.00	.50 to .75
Paper White Nar., Roman Hy.	3.00 to 4.00	..... to	2.00 to 4.00	2.00 to 2.50
Tulips, Daffodils.....	3.00 to 4.00	..... to	3.00 to 4.00	2.00 to 3.00
Cattleyas.....	40.00 to 60.00	..... to	50.00 to 60.00	35.00 to 50.00
Lilies, Callas.....	20.00 to 25.00	..... to	12.00 to 15.00	10.00 to 12.00
Freesia.....	3.00 to 5.00	..... to	2.00 to 4.00	1.00 to 2.00
Gardenias.....	..... to 50.00	..... to	25.00 to 40.00	..... to 50.00
Lily of the Valley.....	2.00 to 5.00	..... to	2.00 to 4.00	2.00 to 4.00
Mignonette.....	4.00 to 8.00	..... to	3.00 to 6.00	1.00 to 2.00
Adiantum.....	1.00 to 1.50	..... to	1.00 to 1.50	1.00 to 1.50
Smilax.....	12.00 to 16.00	..... to	15.00 to 20.00	12.00 to 16.00
Asparagus Plumosus, strings.....	35.00 to 50.00	..... to	50.00 to 75.00	..... to 50.00
" " & Sprenger bunches.....	35.00 to 50.00	..... to	35.00 to 50.00	35.00 to 50.00

POEHLMANN BROS. CO.

Grow and Ship the Finest

AMERICAN BEAUTIES

in the World.

35-37 Randolph St., - CHICAGO, ILL.

The Florists' Supply House of America

Can fill hurry orders. Telephone or Telegraph

H. BAYERSDORFER & CO.

1129 Arch St., Philadelphia

TO BUYERS

Patronize our Advertisers, they will treat you right

THE RIGHT WAY

Don't experiment. There's nothing in Florists' Supplies worth having that we cannot supply at right prices. And we stand behind the quality every time.

Our Tone Ware Vases and Bowls, in Pompeian Designs, are Unequalled for Rich Effect

We have a special CHIFFON in exact floral tints

It is not the cheapest but the best ever offered to the florist trade. Splendid Easter Baskets and Jardinieres are now in stock. Send for latest illustrated catalogue.

H. BAYERSDORFER & CO., 1129 Arch St., Philadelphia, Pa.

CUT FLOWER MARKET REPORTS

BOSTON Our price quotations show the top value on American Beauty, \$100 per 100. It might as well be \$200 as \$100, as the grade indicated does not exist in this market to any appreciable extent. When conditions may change is a question; no indications of it thus far. Still, the tendency of the market is downward, although it is not felt yet on any line except carnations, and then only in the colored stock, as the demand for white is in excess of the regular supply, and these are absorbed promptly, while the colors lag a little. Lilies are a trifle easier; other things as before.

The supply of flowers **CINCINNATI** is still limited in quantity, with a brisk demand for anything that is salable. Carnations are more plentiful than they were last week, but bulbous stock is welcome just now and is moving well at a fair price. Were it not for these periods of dark weather and scarcity of flowers, growers would have to discard bulbs altogether as unprofitable. The price is up on this class of goods now, and it is to be hoped that it will remain where the grower can at least break even. Store men must have stock to do business with, and the supply just now would be meagre indeed if there were no tulips, daffodils, etc., to help out. The man who forces bulbs in quantity needs all the encouragement and help you can give. It is not easy money, by any means, for the man who makes anything out of bulbs earns every cent of it. A few days of sunshine has brought in a better supply of lilies, but its effect on other stock is not noticeable.

We have just passed **COLUMBUS** through a rather peculiar week—customers and orders in plenty, but very little stock with which to satisfy the demands of even our regular trade, to say nothing of the transient customers. I need say little about the shortage of roses and carnations—as all are in the same boat. For a few days past, a little more sun has started things along, and if it keeps on normal conditions will soon again prevail. We look forward to a great Easter business, and there is no question but that we shall have it.

DETROIT Business is very satisfactory. Prices are good from the wholesalers' standpoint, and the retailers are too busy hunting up supply to consider the most reprehensible business trick the human brain has ever thought of, that is cutting of prices.

INDIANAPOLIS Business remains in a most satisfactory state. Spring flowers of all kinds are to be had in abundance and find ready sale. The principal scarcity continues in American Beauty roses, these being very poor. Carnations are up to requirements in quantity and quality. Some splendid tulips are being offered. The demand for violets is supplied wholly with eastern stock. Lilac sells well and is a staple with the best stores. Sweet peas are seen in greater abundance, the quality being much improved. The variety of blooming plants is large, the sales showing an increase. Well done azaleas are to be had in quantity. The local florists are making preparations for an unusually heavy call for stock of all kinds for St. Valentine's day.

NEW YORK The strain under which this market has been laboring ever since the holidays shows signs of relaxing and there are unmistakable evidences that the famine in roses and carnations has come practically to an end. Sunny skies and warmer temperature will soon bring us once more to the time of surpluses. Prices are on the downward track this week.

PHILADELPHIA Supplies are still on the short side, especially in roses, but there are liberal receipts in bulbous flowers which help out on the shortage. The Assembly Ball on Friday took a good deal of stock and there were many dinners and other social functions to use up flowers in a general way. Beauties were very scarce and are getting scarcer. Best stock is bringing a high figure and would bring more if decent quality was to be got. The short grades especially are under standard. No immediate improvement is looked for. Richmonds are very good and help out even better than Libertys. The supply to Brides and Bridesmaids has increased a little. The carnation mar-

ket is normal with Enchantress as the leader. There is a strong demand for a deep pink not so high priced as Lawson. The violet supply is usually curtailed in the wintry conditions now prevailing, but this season is an exception. Both single and double are plentiful. Miscellaneous stock is featureless except mignonette, which is a little draggy. More good Asparagus plumosa could be used with the accent on the "good."

CONDENSATION ON STORE WINDOWS.

A correspondent asks how to get rid of condensation on store windows. We referred the question to two leading florists who make reply as follows:

In reply to your inquiry as to our method of getting rid of condensation on our store window would say that we have tried various preparations but find the best is a porter with a rubber window scraper and some cloths. We have our windows enclosed and heated.

Yours very truly,
PENNOCK BROS.
Philadelphia, Pa.

In reference to your inquiry as to the best method of getting rid of condensation on store windows, beg to say that we have tried many, but the only satisfactory one to us is to throw on clear water and let it run off of its own accord. A glass treated in this wise will remain clear for sometime whereas if washed and wiped dry it will immediately begin to cloud again.

Very truly yours,
GUDE BROS. CO.
Washington, D. C.

WIRE HANGING BASKETS

Good Strong Ones

10 inch, per dozen	\$1.25
12 " " "	1.50
14 " " "	2.00
16 " " "	3.00
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	Last Half of Week ending Feb. 9 1907	First Half of Week beginning Feb. 11 1907		Last Half of Week ending Feb. 9 1907	First Half of Week beginning Feb. 11 1907
Roses			Carnations, Ordinary	2.00 to 3.00	1.50 to 2.00
Am. Beauty, fan and sp.	50.00 to 110.00	50.00 to 75.00	Violets, double	.50 to 1.00	.50 to .75
" extra	30.00 to 40.00	25.00 to 40.00	" single	.35 to .60	.30 to .60
" No. 1	15.00 to 25.00	15.00 to 20.00	Paper White Nar., Roman Hy.	1.50 to 2.00	..... to 2.00
" Lower grades	3.00 to 8.00	3.00 to 8.00	Tulips, Daffodils	2.00 to 5.00	2.00 to 5.00
Bride, 'Maid, Golden Gate, fan & sp	10.00 to 15.00	10.00 to 15.00	Cattleyas	25.00 to 40.00	25.00 to 40.00
" " " " " No. 1 & Ex	6.00 to 10.00	5.00 to 8.00	Lilies, Callas	12.00 to 15.00	10.00 to 15.00
" " " " " low grades	4.00 to 5.00	3.00 to 4.00	Freesia	1.00 to 3.00	1.00 to 3.00
Liberty, Richmond, fancy & special	20.00 to 35.00	15.00 to 35.00	Gardenias	..... to 3.00	..... to 25.00
" lower grades	3.00 to 12.00	3.00 to 10.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Chatenay, Morgan, fancy and spec.	12.00 to 15.00	8.00 to 12.00	Nigronette	3.00 to 12.00	3.00 to 12.00
" lower grades	4.00 to 6.00	3.00 to 5.00	Adiantum	.50 to 1.00	.50 to 1.00
Killarney, Wellesley, fan. and spec.	12.00 to 20.00	8.00 to 12.00	Smilax	12.00 to 16.00	12.00 to 16.00
" lower grades	4.00 to 8.00	3.00 to 5.00	Asparagus Plumosus, strings	25.00 to 35.00	25.00 to 35.00
Carnations, Fancy	4.00 to 8.00	3.00 to 6.00	" & Sprenger, bunches	15.00 to 25.00	15.00 to 25.00

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Green Leucothoe Sprays \$2.50 per 1000

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Rhododendron Sprays \$3.00 per 1000

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Also Rhododendron Plants which will grow,
10 to 15 inches, 10c. each; 20 to 25 inches, 15c.;
30 to 40 inches, 25c.; 50 to 60 inches, 40c. Dis-
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WHOLESALE FLOWER MARKETS. — PER 100. TO DEALERS ONLY.

	CINCINNATI February 11	DETROIT January 29	BUFFALO February 11	PITTSBURG February 12
ROSES				
Am. Beauty, Fan. and Sp.	40.00 to 50.00	35.00 to 50.00	50.00 to 70.00	60.00 to 80.00
" Extra	40.00 to 50.00	35.00 to 50.00	50.00 to 70.00	60.00 to 80.00
" No. 1	30.00 to 35.00	20.00 to 30.00	18.00 to 25.00	12.50 to 20.00
" Lower grades	10.00 to 20.00	8.00 to 15.00	..... to	5.00 to 8.00
Bride, Maid, Golden Gate, F. & S.	8.00 to 10.00	8.00 to 12.00	12.00 to 15.00	15.00 to 18.00
" " " " No. 1 & Ex.	6.00 to 8.00	6.00 to 8.00	10.00 to 12.00	10.00 to 12.00
" " " " low grades	4.00 to 5.00	5.00 to 6.00	4.00 to 6.00	6.00 to 8.00
Liberty, Richmond, Fan. & Sp.	8.00 to 10.00	8.00 to 12.00	10.00 to 15.00	15.00 to 20.00
" " " " low grades	4.00 to 6.00	6.00 to 8.00	5.00 to 10.00	6.00 to 10.00
Chatenay, Morgan, Fan. & Sp.	8.00 to 10.00	8.00 to 12.00	10.00 to 15.00	12.00 to 15.00
" " " " low grades	4.00 to 6.00	6.00 to 8.00	5.00 to 15.00	8.00 to 10.00
Killarney, Wellesley, Fan. & Sp.	8.00 to 12.00	8.00 to 12.00	..... to	15.00 to 20.00
" " " " low grades	6.00 to 10.00	6.00 to 8.00	..... to	6.00 to 12.00
CARNATIONS				
Fancy and Novelties	3.00 to 5.00	3.00 to 5.00	4.00 to 5.00	4.00 to 6.00
Ordinary	1.50 to 2.00	1.50 to 3.00	2.00 to 3.00	2.00 to 3.00
MISCELLANEOUS				
Violets, Double .....	.75 to 1.00	1.50 to 2.00	75 to 1.25	1.00 to 1.50
" Single .....	.75 to 1.00	1.00 to 1.50	.50 to 1.00	.50 to .75
Paper White Nar., Roman Hy.	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00
Tulips, Daffodils	3.00 to 4.00	4.00 to 6.00	3.00 to 4.00	3.00 to 4.00
Cattleyas	35.00 to 50.00	5.00 to 10.00	..... to .....	..... to
Lilies, Callas	15.00 to 20.00	20.00 to 25.00	5.00 to 20.00	15.00 to 20.00
Freesia	2.00 to 3.00	4.00 to 5.00	2.00 to 4.00	3.00 to 4.00
Gardenias	25.00 to 50.00	35.00 to 40.00	..... to .....	..... to
Lily of the Valley	4.00 to 4.00	4.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Mignonette	2.00 to 4.00	10.00 to 15.00	3.00 to 5.00	4.00 to 6.00
Adiantum .....	..... to 1.00	1.00 to 1.50	.50 to 1.00	1.00 to 1.50
Smilax .....	..... to 15.00	15.00 to 20.00	12.00 to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	50.00 to 60.00	40.00 to 50.00	35.00 to 50.00
" & Sprengeri, bunches to 25.00	30.00 to 40.00	25.00 to 30.00	25.00 to 40.00

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cothoe, Ferns and Mosses. All Decorating Evergreen

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Ready Reference Guide

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AMARYLLIS.

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ARAUCARIAS.

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ARTIFICIAL CARNATION CALYX

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P. O. Box 304-D.
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Albert M. Herr, Lancaster, Pa.
Asparagus Robustus.
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Asparagus plumosus nanus and Sprengeri,
2 1/2-in., \$2.50 100. Carl Hagenburger, West
Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in.,
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R. M. Ward & Co., 12 W. Broadway, N. Y.
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John Scheepers & Co., 2-6 Old Slip, N. Y.
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Bulbs. Cannas, Dahlias, Gladioli, Oxalis,
Madelra and Cinnamon vines, Iris, Peonies.
Finest stock. C. Betscher, Canal Dover,
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CALLAS.

Baby Callas, 3 in., \$3.00 per 100. P. A.
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Best sorts. Write Benj. Connell, West
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ward, Victor Hugo, Morning Star, Paul
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Partenope, \$2.00 per 100. Started roots
from sand after March 1, \$2.50 per 100.
Est. of David Fisher, Woburn, Mass.

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Carnation Mabelle.

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Carnations Aristocrat, White Perfection
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The F. R. Pierson Co., Tarrytown-on-
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Carnations, Winsor, White Enchantress,
Helen M. Gould.

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Carnation Debutante.

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John E. Haines, Bethlehem, Pa.

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N. Y. Cut Flower Co., 55-57 W. 26th St.,

New York. J. A. Millang, Mgr.

Carnation Winsor Blooms.

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Send for list of rooted cuttings of new

and leading commercial varieties of carnations

and chrysanthemums. Wm. Swayne,

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Elbon, a fine red carnation, easy to grow,

a money maker. Fine rooted cuttings,

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Healthy rooted carnation cuttings. Queen Louise, Hill, Gomez, Norway, Boston Market, \$9.00 per 1000. Melody, \$5.00 per 100. Red Lawson, \$15.00 per 100. Lawson, Harlowarden, Mrs. Nelson, \$12.50 per 1000. White Cloud unrooted, \$4.00 per 1000. Wm. Ehmann, Corfu, N. Y.

CHRYSANTHEMUMS.

Eggeling Floral Co., 1653 S. Grand Ave., St. Louis, Mo.

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Chrysanthemums. Jeanne Nonin, C. Touset, Mrs. Brice, Roi d'Italie, Fred Lemon, Merza, Cobbold, M. Ware, Oct. Sunshine, Beauty of Sussex, \$2.00 per 100. Glory Pacific, Kalb, Monrovia, Polly Rose, Alliance, Mrs. Robinson, J. Shrimpton, Bride, Bonnaffon, Halliday, Duckham, Cullingfordii, Mrs. Chamberlain, Arline, Ermenilda, W. Bonnaffon, Princess, M. Friend, Nellie Pockett, Lincoln, W. Jones, G. Wedding, Ben Wells, Yellow Eaton, Enguehard, Mrs. Weeks, Appleton, G. Trophy, Florence Teal, A. Balfour, Intensity, Mme. Perrin, \$1.50 per 100; \$12.50 per 1000. Wm. Ehmann, Corfu, N. Y.

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Clematis Pauculata, Strong field-grown plants, \$15.00 per 100; strongest, \$30 per 100. Quotations on larger quantities. Est. David Fisher, Woburn, Mass.

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DAHLIAS.

David Herbert & Son, Atco, N. J.
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W. P. Lothrop, Brockton Dahlia Farm, E. Bridgewater, Mass.

J. K. Alexander, E. Bridgewater, Mass.
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DAISIES.

Alexandra Daisies, 2 in., \$1.50 per 100. P. A. Baker, Media, Pa.

Leedham Bulb Co., Santa Cruz, Cal. Shasta Daisies.
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DECORATIVE PLANTS.

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS.

Dracaena terminalis from bench, fine \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

FERNS.

A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass. Nephrolepis Whitmanii.
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H. N. Eaton, So. Sudbury, Mass. Boston Ferns.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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P. R. Quintan, Syracuse, N. Y. Nephrolepis Whitmanii and Elegantissima.
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FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' FERTILIZER.

Pulverized Manure Co., 31 Union Stock Yards, Chicago. Sheep Manure, Wizard Brand.
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FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
For page see List of Advertisers.

FLORISTS' SUPPLIES.

N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.
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M. M. Robinson & Co., 8-11 Province St., Boston, Mass.
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The Kervan Co., 20 W. 27th St., N. Y. Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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J. Stern & Co., 125 No. 10th St., Phila.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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FLORISTS' WAGONS.

Edward Higgins, 1 W. 28th St., N. Y.
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FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
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Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
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Thos. Young, Jr., 41 W. 28th St., New York.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Young & Nugent, 42 W. 28th St., New York.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Av. & 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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Syracuse Red Pots.
Syracuse Pottery Co., Syracuse, N. Y.
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GALAX.

H. M. Robinson & Co., 8-11 Province St., Boston.
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GALAX—Continued.

Michigan Cut Flower Co., Detroit.
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Caldwell the Woodsman Decorating Co., Evergreen, Ala.
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J. N. Pritchard, Elk Park, N. C.
For page see List of Advertisers.

Bronze and green galax. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

Galax leaves, leucothoe sprays, dagger and fancy ferns, green and brouze. Write F. W. Richards & Co., Banner Elk, N. C.

GERANIUMS.

R. Vincent, Jr. & Son, White Marsh, Md.
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GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin, N. Y.
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Gladioli. C. Betscher, Canal Dover, O.
Gladioli, named varieties. Write for list. E. E. Stewart, Rives Junction, Mich.

Gladiolus Augusta, 1st size, \$12.00; 2nd size, \$8.00 1000. Cash. Rowehl & Granz, Hicksville, N. Y.

Gladioli, all sizes. Stock direct from Groff. Nothing better, \$1.00 to \$5.00 per 1000. P. O. Coblenz, New Madison, Ohio.

Groff's hybrids, good blooming size, \$8.00; small blooming size, \$5.00 per 1000. Bulb-lets, \$2.00 per peck, \$5.00 per bushel. E. R. Macomber, 20 Leonard St., Portland, Me.

Gladioli, Groff's hybrid, choice mixture, No. 1, \$8.00 per 1000; No. 2, \$6.00; No. 3, \$3.00; No. 4, \$1.50; the latter will generally bloom. Gladioli in thirty named varieties. See price list. The E. Y. Teas Co., Centerville, Ind.

GLASS.

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., Boston.

Peerless GLASS REPAIR CLAMP; you need them—100 for \$1.00. A. Klokner, Wauwatosa, Wis.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GLOXINIAS.

H. H. Berger & Co., 47 Barclay St., N. Y.

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square, New York.
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Hitchings & Co., 1170 Broadway, New York.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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Weathered Co., Box 789, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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GREENHOUSE HOSE.

Mineralized Rubber Co., 18 Cliff St., N. Y.
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HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston, Mass.
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The Kervan Co., 20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 and 40 Miami Ave., Detroit, Mich., Wm. Dilger, Mgr. Fancy Ferns.
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E. A. Beaven, Evergreen, Ala. Fadeless Sheet Moss.
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HARDY FERNS AND SUPPLIES—
Continued.

Hardy cut ferns. L. B. Brague, Hinsdale, Mass.

Fancy ferns, green sheet moss; leucothoe sprays, etc. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

HARDY PERENNIALS.

M. H. Walsh, Woods Hole, Mass.
For page see List of Advertisers.

For Sale—The most complete stock of Hardy Perennials, Dahlias and other Bulbs, for Spring planting at reduced prices. Get list. Palisades Nurseries, Sparkill, N. Y.

HEATING APPARATUS.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square, New York.
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Hitchings & Co., 1170 Broadway, New York.
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Kroeschell Bros., 35 Erie St., Chicago.
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HORICUM.

Hammond's P. & S. S. Works, Fishkill-on-Hudson, N. Y.
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HOT-BED SASH.

The A. T. Stearns Lumber Co., Neponset, Mass.
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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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JAPAN BULBS.

R. M. Ward & Co., 12 W. Broadway, N. Y.
Seitaro Arai, Yokohama, Japan.
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KENTIAS.

Godfrey Aschmann, 1012 Ontario St., Philadelphia.
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A. Leuthy & Co., Roslindale, Mass.
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LAWN MOWER.

Clipper Lawn Mower Co., Dixon, Ill.
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LEADING RETAIL FLORISTS.

Alex. McConnell, New York.
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Thomas Young, Jr., New York.
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Fred C. Weber, 4325 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
For page see List of Advertisers.

Gude Bros. Co., 1214 F St., Washington, D. C.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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Young & Nugent, 42 W. 28 St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Av. & 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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NICO-FUME.

Ky. Tobacco Product Co., Louisville, Ky.
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NURSERY STOCK.

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.
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John Scheepers & Co., 2-6 Old Slip, N. Y.
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The Conard & Jones Co., West Grove, Pa.
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F. W. Kelsey, 150 Broadway, New York.
To Clear the Land for Other Stock. 3000 Willow, Laurel Leaved and Golden, 4 to 6 ft., \$9.00 per 100; 6 to 8 ft., \$14.00 per 100. 4000 White Pine, 8 to 14 in., transplanted, \$6.00 per 100; 6 to 10 in., seedlings, \$3.50 per 100. 2000 Hemlock, 4 to 6 ft., transplanted, \$7.00 per 100; 6 to 10 in., seedlings, \$3.50 per 100. Fine, clean stock. The Pierce Nursery, Beverly Farms, Mass.

Edward Bellamy althaea, best double pure white in cultivation, 2 to 3 ft., \$5.00 per 100.

Calycanthus (sweet shrub), 1 1/2 to 2 ft., transplanted, \$5.00 per 100.

Wistaria magnifica, 3 years transplanted, \$3.00 per 100; \$25.00 per 1000.

Sugar maple seedlings, very fine, 1 to 1 1/2 ft., \$8.00 per 1000; 6 to 12 inches, \$5.00 per 1000. The E. Y. Teas Co., Centerville, Ind.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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A Held, 11-19 William St., New York.
Orchids for Spring Delivery.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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PALMS.

A. Leuthy & Co., Roslindale, Mass.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
For page see List of Advertisers.

PANSIES.

Pansy plants; strong transplanted \$4.00 and \$10.00 per 1000. F. A. Baller, Bloomington, Ill.

PATENTS.

Siggers & Siggers, Washington, D. C.
For page see List of Advertisers.

PEONIES.

Peonies, fine assorted, \$10.00 per 100. F. A. Baller, Bloomington, Ill.

Peonies, 1200 sorts. Greatest list anywhere. C. Betscher, Canal Dover, Ohio.

Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

Choice mixed single and double seedlings from our noted collections of over three hundred varieties, strong undivided clumps, \$6.00 per 100. Mt. Desert Nurseries, Bar Harbor, Me.

PHILADELPHUS.

Syringa grandiflora, 3 years, strong, \$15.00 per 100. John Stamm, Hutchinson, Kan.

PHLOXES.

Twenty choice named varieties, strong field grown plants, \$4.00 per 100; \$30.00 per 1000. Mt. Desert Nurseries, Bar Harbor, Me.

Hardy phlox, best assortment, standard varieties, 2-year, field clumps, \$3.00 per 100; \$25.00 per 1000. John Stamm, Hutchinson, Kan.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PLANT BED CLOTH.

Mineralized Rubber Co., 18 Cliff St., N. Y.
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PRUNING SHEARS.

Rhodes Mfg. Co., Grand Rapids, Mich.
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RHODODENDRONS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Rambler.
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Bassett & Washburn, Hinsdale, Ill.
Rooted Cuttings of Kaiserin, Pres. Carnot, La Detroit.
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Paul Niehoff, Lehigh, Pa.
Rose Aurora.
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Robert Scott & Son, Sharon Hill, Del. Co., Pa.
Grafted Roses.
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The Conard & Jones Co., West Grove, Pa.
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Bay State Nurseries, No. Abington, Mass.
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S. S. Pennock-Meehan Co., Philadelphia.
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Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1/4-in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to the late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co.,
33 Barclay St., New York.
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Henry A. Dreer, Philadelphia.
New Orchid-Flowering Sweet Peas.
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A. T. Boddington, 342 W. 14th St., N. Y.
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H. F. Mitchell Co., 1017 Market St. Philadelphia, Pa.
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James Vick's Sons, Rochester, N. Y.
Aster Seed.
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W. W. Rawson & Co., 5 Union St., Boston.
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Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Rickards Bros., 37 East 19th St. New York.
Asparagus Plumosus Nanus Seed.
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Johnson Seed Co., 217 Market Street, Philadelphia.
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R. & J. Farquhar & Co., 6-7 So. Market St., Boston.
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Watkins & Simpson, 12, Tavistock St., London, Eng.
Sweet Pea Novelties.

Wm. Elliott & Sons, 201 Fulton St., N. Y.
Begonia Vernon.
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I sell only Reliable Flower Seeds. Ask for Wholesale Catalogue. O. V. Zangen, Hoboken, N. J.

Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

Aster Seeds, home-grown, strictly pure. Prices right. Nathan Smith & Son, Adrian, Mich.

SHAMROCKS.

Genuine Irish shamrock (original plant came from cemetery of Downpatrick in Ireland) now ready, 2 1/2-in., \$4.00 per 100, \$35.00 per 1000; 250 at 1000 rate. 15c. ea., 60c. doz., by mail. Cash. J. D. Harcourt's Sons, Wappingers Falls, N. Y.

SHEEP MANURE.

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Wizard Brand.
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R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston.
Pulverized Sheep Manure.
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SHEET MOSS.

E. A. Beaven, Evergreen, Ala.
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SMILAX.

Smilax seedlings, fall-sown, \$3.00 per 1000.
F. A. Baller, Bloomington, Ill.

SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

STEAM TRAP.

E. Hppard, Youngstown, O.
For page see List of Advertisers.

STOCKS.

Stocks. Snowflake or Dwarf Bouquet. Benary's strain, 90 per cent. double, white, blue, red, each separate for Easter bloom. 2-luch, \$2.00 per 100, \$15.00 per 1000; seeds cheap. Cash. Shellroad Greenhouses, Grange, Baltimore, Md.

TOMATO SEEDS.

Wm. Sim, Cliftondale, Mass.
Comet Tomato.
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UNLEACHED HARWOOD ASHES.

John Joynt, Lucknow, Ont., Can.
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VENTILATING APPARATUS.

Lord & Burnham Co.
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Weathered Co., 46 and 48 Marlon St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VINCAS.

Vincas, variegated, 3-in., \$4.00 per 100. Vinca minor (myrtle), 3-in., \$3.00 per 100. C. F. Mahan, R. D. No. 8, Dayton, O.

Myrtle (Vinca minor). Here I am again with the biggest stock in America, \$10.00 to \$40.00 per 1000. S. J. Galloway, Eaton, Ohio.

10,000 vincas 2 1/2 in. fine, \$2.50 per 100; \$20.00 per 1000. R. Cuttings same, \$1.00 per 100; \$7.00 per 1000. Cash, please. Benj. Connell, West Grove, Pa.

VIOLETS.

H. K. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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WANTED.

Wanted—Mrs. Roosevelt calla.
Wanted—You to send for my price list of hardy plants, etc. It's free. S. J. Galloway, Eaton, Ohio.

WILD SMILAX.

E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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Caldwell the Woodsman Decorating Co., Evergreen, Ala.
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WIRE HANGING BASKETS.

Frank W. Ball, 31 East 3d St., Cincinnati.
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WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

Wire work, all kinds. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

William E. Hielscher's Wire Works, 38-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

WHOLESALE FLORISTS.**Boston.**

N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Robinson & Co., 15 Province St., Boston.
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George A. Sutherland Co., 34 Hawley St., Boston.
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Welch Bros., 226 Devonshire St., Boston.
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Buffalo.

Wm. F. Kasting, 383-87 Ellicott St., Buffalo, N. Y.
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Chicago.

Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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A. L. Randall Co., 19-21 Randolph St., Chicago.
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E. F. Winterson Co., 45-49 Wabash Ave., Chicago.
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Poehlmann Bros. Co., 35 Randolph St., Chicago.
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Detroit.

Michigan Cut Flower Exchange, 38 & 40 Broadway. Wm. Dilger, Mgr.
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New York.

J. K. Allen, 106 W. 28th St., New York.
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Wm. Stuart Allen Co., 53 W. 28th St., New York.
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C. W. Eberman, 53 W. 30th St., New York.
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J. S. Fenrich, 110 W. 28th St., New York.
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Ford Bros., 48 West 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 West 28th St.
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E. C. Horan, 55 West 28th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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John I. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Traendly & Schenck, 44 W. 28th St., New York.
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A. L. Young & Co., 54 W. 28th St., N. Y.
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John Young, 51 W. 28th St., New York.
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Philadelphia.

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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Leo Niessen Co., 1209 Arch St., Philadelphia, Pa.
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WHOLESALE FLORISTS—Continued Philadelphia.

The S. S. Pennock-Meehan Co., 1808-18 Ludlow St., Philadelphia, Pa.
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Edward Reid, 1526 Ranstead St., Philadelphia, Pa.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
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New Offers in This Issue.**ASPARAGUS PLUMOSUS NANUS SEED.**

Johnson Seed Co., Philadelphia.
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BEGONIAS, GLOXINIAS, FANCY-LEAVED CALADIUMS.

H. F. Michell Co., Philadelphia.
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DAHLIAS, CARNATIONS, CHRYS-ANTHEMUMS.

Harlowarden Greenhouses, Greenport, N. Y.
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EASTER FLOWERING PLANTS.

A. Schulteis, College Point, N. Y.
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GRAFTED ROSES: OWN-ROOT BEAUTIES.

A. N. Pierson, Cromwell, Conn.
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JAPAN LILIES.

H. H. Berger & Co., 47 Barclay St., N. Y.
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NURSERY STOCK BARGAINS.

Elizabeth Nursery Co., Elizabeth, N. J.
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PEONIES FOR EARLY SPRING PLANTING.

Cottage Gardens Co., Queens, N. Y.
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SPIREA GLADSTONE.

Wm. Elliott & Sons, 201 Fulton St., N. Y.
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THEY'RE STICKING OUT all over these pages.**WHAT?**

Bargains in good stock.



HAVE YOU A SURPLUS of any kind of stock? Make it a surplus OF CASH by advertising it in HORTICULTURE.

Tobacco Paper "NICO-FUME" LIQUID

IS THE
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By far the
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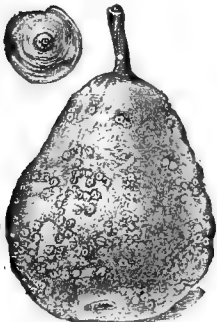
24 sheets.....	\$ 0.75
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TRADE MARK



San Jose Scale on a Pear.

Kills San Jose.

HAMMOND'S SLUG SHOT WORKS.

"HORICUM" A Scale Killer and Fungicide

A preparation for the destruction of the "SAN JOSE SCALE"; carefully prepared and put up in packages for general use.

"HORICUM" can be obtained from many of the Seedsmen in the United States. A description of the article is aptly told in the pamphlet. It is put up in quarts and gallons to 50 gallon barrels. It is the Lime, Sulphur, and Salt combination, concentrated.

ABOUT "HORICUM"

Glenside, Pa., March 31, 1906.

Hammond's Slug Shot Works, Fishkill-on-Hudson, N. Y.

Gentlemen: Seeing "Horicum" mentioned in Monthly Bulletin of Div. of Zoology, Penna., I would thank you to inform me where I can get a supply, say about a gallon, for trial. The San Jose Scale is very bad around this section and could no doubt push sale of the solution, especially as it is spoken of so highly in the above mentioned Bulletin.

Yours respectfully, H. J. HINDS.

P. S. Glenside is twelve miles from Philadelphia.

Send for Pamphlet on "Bugs and Blights" to B. Hammond, Fishkill-on-Hudson, N. Y.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR SALE

FLORISTS' WAGONS FOR SALE

Three florists' open wagons, three florists' top wagons and three sets of harnesses. Can be seen at 1 West 28 St., New York.

EDWARD HIGGINS.

FOR SALE—Greenhouse Pipe

4-in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

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POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—By Florist and Gardener where services of a first-class Grower are required. Married, 2 children. Address S. I., care HORTICULTURE, 9th and Market Sts., Philadelphia, Pa.

HELP WANTED

Seedsmen

We have an opening for order and counter hands who are experienced.

William Elliott & Sons
201 Fulton St., New York

HELP WANTED

WANTED—Intelligent young gardener with some botanical and fern knowledge. Good salary. Address with qualifications H. J., care HORTICULTURE, 11 Hamilton Place, Boston, Mass.

WANTED AT ONCE—A sober and energetic young man with knowledge of pruning, planting, etc., to assist in general landscape work. Apply in person or by mail with reference to A. Van Leeuwen, Jr., 3 Wexford Rd., Worcester, Mass.

WANTED—Two bright, energetic commercial greenhouse men with a knowledge of palms, ferns and a general line of decorative and bedding plants. Wages \$55 per month and room. Address B. H., HORTICULTURE, 11 Hamilton Place, Boston.

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MISCELLANEOUS WANTED

WANTED HOTHOUSE STRAWBERRIES

Address, SUMNER'S MARKET, 31 Bromfield St., Boston

WILL PURCHASE a private collection of Orchids from parties desiring to dispose of same. Address A. K. Balvire, 24 Clinton Street, Newark, N. J.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 2 1/4 " " 5.25	60 8 " " 3.00
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800 3 1/2 " " 5.80	48 9 in. pots in crate \$3.60
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320 5 " " 4.50	24 11 " " 3.60
144 6 " " 4.51	24 12 " " 4.80
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Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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Wizard Brand Pulverized Sheep Manure

is absolutely pure. It is the best and most economical Greenhouse and Garden fertilizer on the market. Write today for prices and booklet. All kinds of dried manures, shredded or pulverized for sale.

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RHODES DOUBLE OUT PRUNING SHEAR



Cuts from both sides of limb and does not bruise the bark. We pay Express charges on all orders. Write for circular and prices.

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Holds Glass Firmly

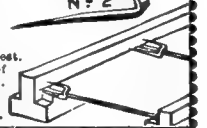
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OF ALL KINDS

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VENTILATING APPARATUS PURLIN FITTINGS, HOT-BED SASH &c.

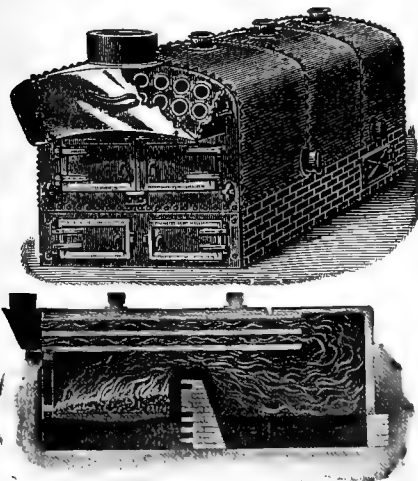
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Boilers made of Steel Boiler Plate; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.



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If your greenhouses are within 500 miles of the Capitol, write us, we can save you money

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28th and M Streets, WASHINGTON, D. C.

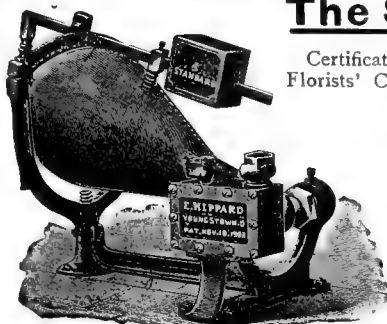
ANCHOR GREENHOUSE HOSE

Stands the racket. Protect your plants with our

PLANT BED CLOTH

Mineralized Rubber Co.

18 Cliff Street, New York



The Standard Steam Trap

Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

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Send for Catalogue

Clipper Lawn Mower Co. DIXON, ILL.



The Mower

that will kill all the Weeds in your Lawn. If you keep the weeds cut, so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.

The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-inch Mower \$5; No. 2—15-inch Mower \$6; No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8. Send draft money-order or registered letter.

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CYPRESS SASH BARS

32 feet or longer

HOT BED SASH

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ERECTED AND EQUIPPED COMPLETE IF DESIRED

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NEPONSET, BOSTON, MASS.

NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.

Just Think This Over

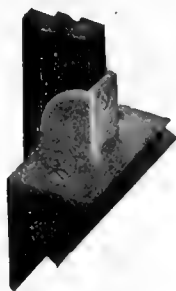
"the man on the outside often knows more about what's going wrong on the inside than the inside man does." Just for example, we run across many a house that we can see at a glance is costing more to run than it should—the inside man is so accustomed to the existing conditions that he long ago ceased to think them important. We trace these things out—that's our business and that's our reason for saying: if you want a house of economy—one that will be planned out to save you every dollar to be saved; then go to people who not only understand greenhouse building *but know greenhouse economies*. Write to H. & Co. for information.

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GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.



WE SELL OUR GALVANIZED ICE CLEARING EAVE PLATE



We cut off this 6 inch section of Eave Plate to give you an idea just how it is.

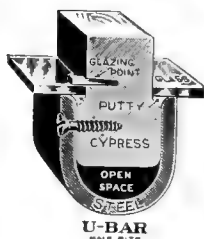
by the foot with the sash bar clasps attached—ready for an immediate set up. If you get down to hard figuring, you'll also want our cast iron foot pieces and pipe post fittings—they will save you actual money now, in time and labor—

and then think of the everlasting rotting out that you are forever free from. Send for information and prices.

FOR SALE: Every part or any part for good greenhouses.

LORD & BURNHAM CO.

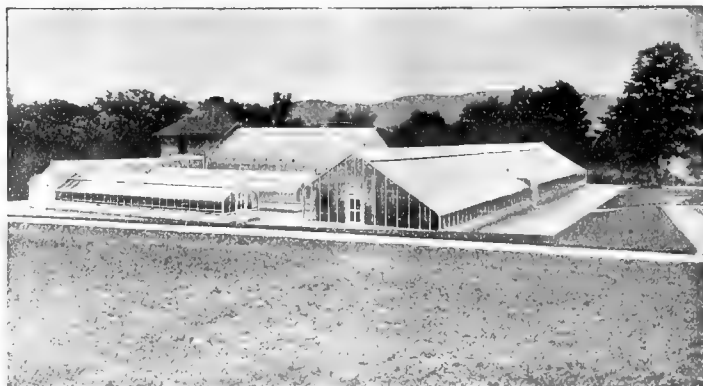
Greenhouse Designers and Manufacturers
1133 BROADWAY, cor. 26th Street, N. Y.
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THE matter of expense in greenhouse repairs is a tremendous item, it's the item that keeps the mill stone around so many necks.

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HORTICULTURE

Vol. V.

FEBRUARY 23, 1907

No. 8



HOUSE OF ORCHIDS

L. S. Bailey Estate, West Roxbury, Mass., John. Niles, Grower

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

... OUR ... CARNATION NOVELTIES — For 1907 —

Winsor, White Enchantress and Helen M. Gould

ONE way to judge carnations is to see them on the exhibition tables. A better and more convincing way is to see them growing; therefore we cordially invite all carnation growers to visit us and judge for themselves regarding the superiority of the above-named sorts.

Our carnation houses are at **Scarborough-on-Hudson**, (not Tarrytown). Friends who desire to visit us can take the N. Y. C. & H. R. R. R. from New York. Trains leave there every half hour. Scarborough is the first station north of Tarrytown. Our grounds adjoin the station, and the greenhouses are about five minutes' walk from the station.

We are growing **25,000 plants of Winsor** for cut flowers, alone, for the new York market this season, which shows the faith we have in it. This will also enable visitors to see it growing in quantity, and besides that, will give us enough plants to get a great abundance of fine, healthy cuttings without over-propagating. We have already booked a large quantity among the large growers, and anticipate for this variety the largest sale of any new carnation that has ever been distributed, as large growers who have seen it are enthusiastic in regard to its value. Those who have seen it have immediately placed large orders for it, so we recommend those who have not ordered to place order without delay, so as to insure early delivery.

For full description of these three valuable novelties, see our wholesale price list.

Wholesale Prices Rooted Cuttings Spring, 1907

WINSOR.—Soft silvery pink. The best color, best keeper, best shipper, best seller—best every way. \$12.00 per 100; \$100.00 per 1000.

WHITE ENCHANTRESS.—Has the large size, long stem, productive habit of Enchantress, but is pure white. \$12.00 per 100; \$100.00 per 1000.

HELEN M. GOULD.—A beautiful sport of Enchantress. Ground color lovely shade of silvery pink, with very fine pencilings of carmine, making an exceedingly exquisite combination. While on close observation this variety is variegated, the general effect is one beautiful tone of dark pink. Exceedingly valuable, because it combines the earliness, freedom, long stem and large size of Enchantress, giving another color possessing all the other desirable qualities of Enchantress. \$12 per 100; \$100 per 1000.

BEACON.—Orange-scarlet. A vigorous, healthy grower, of ideal habit. A profuse bloomer, with long stems. \$12.00 per 100; \$100.00 per 1000.

ARISTOCRAT.—Cerulean-pink. Will be planted largely in place of Lawson. \$12.00 per 100; \$100.00 per 1000.

MELODY.—Daybreak sport of Lawson, about the same color as Enchantress, but much brighter, and does not fade like Enchantress. Also a much better keeper and shipper. Those who grow the Lawson varieties exclusively will find this very valuable and desirable, because it gives an improved Enchantress color, which is so popular, and at the same

time can be grown in the same house with the other Lawsons. An extra fine thing in every way and in great demand. A great addition to the Lawson class. \$10.00 per 100; \$75.00 per 1000.

ROSE PINK ENCHANTRESS.—A sport of Enchantress. Color, dark rose pink. \$7.00 per 100; \$60.00 per 1000.

WHITE PERFECTION.—A novelty of 1906, and a variety for which there is a great demand this season. A third larger than Lady Bountiful and a more perfect flower. \$6.00 per 100; \$50.00 per 1000.

VICTORY.—Scarlet. This is giving great satisfaction, being a free blooming, profitable scarlet. \$6.00 per 100; \$50.00 per 1000.

RED LAWSON.—A fine red. Our stock of this is superior to many stocks of Red Lawson that we have seen. \$4.00 per 100; \$30.00 per 1000.

VARIEGATED LAWSON.—The most productive of the variegated sorts. A favorite. Outblossoms Mrs. M. A. Patten. \$4.00 per 100; \$30.00 per 1000.

WHITE LAWSON.—An excellent white. \$4.00 per 100; \$30.00 per 1000.

LADY BOUNTIFUL.—Pure white. \$4.00 per 100; \$30.00 per 1000.

ENCHANTRESS.—\$3.00 per 100; \$25.00 per 1000.

MRS. M. A. PATTEN.—\$3.00 per 100; \$25.00 per 1000.

MRS. THOS. W. LAWSON.—\$3.00 per 100; \$20.00 per 1000.

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ORIENTAL POPPY
MRS. PERRY.



IMPERIAL and PINK IMPERIAL CARNATIONS

You Cannot Afford to be Without these Two Excellent Varieties

Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order

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The Wholesale Florist of New York
43 WEST 28TH STREET

JOHN E. HAINES,

BETHLEHEM, PA.

Carnations

Rooted Cuttings, A No. 1 Stock,
that will give the best
of satisfaction

	Per 100	Per 1000
Helen Goddard	\$6.00	\$50.00
Robert Craig	5.00	45.00
Victory	6.00	50.00
Lieut. Peary	3.50	30.00
Lady Bountiful	3.00	25.00
Enchantress	2.50	20.00
Lawson	2.00	15.00
White Lawson	2.50	20.00
Harry Fenn	2.50	20.00
Queen	2.00	15.00
Cardinal	3.00	25.00
Flamingo	3.00	25.00
Jno. E. Haines	6.00	50.00
Lawson White	2.50	20.00
Red Sport	3.50	24.00
Boston Market	1.75	15.00
Variegated Imperial	12.00	100.00
Pink Imperial	12.00	100.00

Rose Plants

OWN ROOTS PROPAGATED FROM
GRAFTED STOCK

Kaiserin, Bride, Maid	2 in. pots	2.50	20.00
Chatenay, 2 1/2 in.	unpotted	2.50	20.00
Wellesley, 2 in.		3.50	30.00
Killarney, 2 in.		3.50	30.00
" 2 1/2 in.		4.50	40.00
Richmond, 2 1/2 in.		5.00	40.00

GRAFTED, ENGLISH MANETTI STOCK

Kaiserin, Bride, Maid,			
Killarney, Richmond,			
Wellesley, Chatenay,	2 1/2 in.	10.00	100.00
Kate Moulton,	own roots	10.00	
"	grafted	25.00	

Asparagus Seeds

(TRUE PLUMOSUS NANUS)

Greenhouse grown, \$4.50 per 1000
seeds. Special quotation on lots of
10,000 or more.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale PHILA.
Florists of

1608-1618 Ludlow St.

You'll find something worth reading
on every page of this paper.

JOHN E. HAINES,
The Leading Scarlet

brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass. All shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted, healthy cuttings leave the place. Rooted cuttings ready Dec. 15, 1906. Price, \$6.00 per 100; \$50 per 1000.

JOHN E. HAINES, Bethlehem, Pa.

CARNATIONS

Rooted Cuttings—Now Ready

Per 100:—Light Pink Lawson, \$6.00; White Lawson, \$2.50; Variegated Lawson, \$2.50. T. W. Lawson, \$2.00; Enchantress, \$2.50; Harry Fenn, \$2.50; Manley, \$2.50; Boston Market, \$2.00; Fair Maid, \$2.00

HENRY A. STEVENS CO.

East Street, Dedham, Mass.

Rooted Cuttings

CARNATIONS

	Per 100	Per 1000
White Perfection, pure white	\$6.00	\$50.00
White Lawson	3.00	25.00
Lady Bountiful	3.00	25.00
Lieut. Peary	4.00	30.00
Red Riding Hood, new scarlet	12.00	100.00
Victory	6.00	50.00
Cardinal	4.00	30.00
Red Lawson	4.00	30.00
Daybreak Lawson or Melody	6.00	50.00
Enchantress	2.50	20.00
Helen Goddard	5.00	45.00
Fiancee	4.00	30.00
Variegated Lawson	3.00	25.00
Harlowarden	2.00	15.00

Aristocrat, beautiful cerise, the best variety disseminated this season.

MUMS

MARCH 15th.

	\$2.00 per 100	\$15.00 per 1000
Mrs. Mary Mann		Touset
Nerstham Yellow		Mrs. Nathan Smith
W. H. Chadwick		White Bonaffon
Golden Chadwick		Glory of the Pacific
Adelia		Majestic
Estelle		Ivory
Cremo		Pink Ivory
Yellow Bonaffon		Mrs. Robinson

ROSES

	\$2.00 per 100	\$15.00 per 1000
Mme. Chatenay		Brides
Brides		Uncle John
Richmond		Golden Gate

Chicago Carnation Co.,

A. T. PYFER,
Manager

Joliet, Ill.

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New Pink Carnation for 1907

Color—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Law on. Unlike most Pinks, the brightest sun does not injure the color. Size—3 to 4 inches in diameter when established. Odor—Pleasing, but not strong. Stems—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. Habit, etc.—A very quick, active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness—P. odious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. Delivery January 5th to 10th and later.

Price \$12.00 per 100, \$100.00 per 1000

THE H. WEBER & SONS CO., Oakland, Md.

DON'T Be Afraid To Invest In ROSE PINK ENCHANTRESS

It is both free and "fancy"—a sure money-maker.

Price \$7.00 per 100; \$60 per 1000

Delivery January and later. Write for Descriptive Circular.

S. S. SKIDELSKY
824 No. 24th Street, Philadelphia

CARNATIONS.

Red Chief—Bright scarlet—early and very productive. \$12.00 per 100; \$100.00 per 1000. Average 3 in. flower. A leader in every respect.

Bonnie Maid—Clear pink edged white.—\$12.00 per 100; \$100.00 per 1000. Large well formed bloom. Very early and productive.

F. DORNER & SONS CO.
La Fayette, Ind.

NEW DOUBLE PETUNIA

THE QUEEN

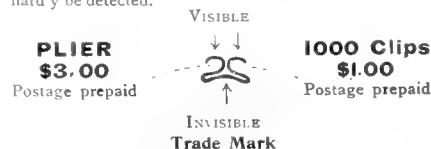
a wonderful bloomer: flowers from four to four and one-half inches in diameter; white mingled with purple, nicely fringed; an early bloomer; fine seller for Decoration Day: planted outdoors will bloom all summer. Strong plants, ready Feb. 15, \$1.50 per doz.; \$10.00 per 100. \$90.00 per 1000.

THE YATES FLORAL CO.

Joseph Traudt, Prop. Canajoharie, N. Y.
Scranton Florist Supply Co.
SCRANTON, PA.

Save Your Split Carnations

The BAUR CLIP and PLIER will do it in a Businesslike manner at a minimum of time and expense. Inexpensive, Instantaneous! Applied and Practically Invisible. The clips are made of galvanized wire and are colored green just the color of the calyx and can hardly be detected.



BAUR FLORAL CO., - Erie, Pa.

DAHLIAS! CARNATIONS! CHRYSANTHEMUMS!

Strong Field roots of leading cactus and other dahlias, such as Kriemhilde, Brunhilde, Strahlen Krone, Winsome, Dainty, Lonsdale, Ruth, etc., \$4.00 per 100, \$35.00 per M. Send for full list of kinds.

Carnation and Chrysanthemum cuttings now ready rooted. Field Carnations ready June 25 to bench. We field April 1, and are mammoth by July. Early benching is the thing. Orders booked for July 1 or later delivery. Send for list. Only up to date kinds. Cash with order.

HARLOWARDEN GREENHOUSES
GREENPORT, N. Y.

DEBUTANTE

The most profitable light pink Carnation.

Tested Four Years

\$10.00 per 100. Delivery begins Jan. 1.

J. W. HOWARD - Somerville, Mass.

SAVE YOUR PINKS

before splitting. Don't try to patch them up with wires. That would do in the 19th but not the 20th century. Use the M. & D. Artificial Calyx. \$1.75 per 100; \$15.00 per 1000. Send for Sample.

MAXFIELD & DIMOND, Mf., P.O. Box 3040, Warren, R.I.

ORCHIDS

**Cattleya Schroederae, Phalaenopsis Amabilis
and Schilleriana, Dendrobium
Wardianum and Nobile**
and many other choice and useful varieties.

Daily Shipments of Blooms, if You Wish

*GARDENIAS, LILY OF THE VALLEY, ADIANTUM
FARLEYENSE, YELLOW and WHITE DAISIES.*

JAMES McMANUS

42 West 28th Street

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NEW YORK CITY

ORCHIDS ORCHIDS ORCHIDS

We beg to announce that we have always on hand large quantities of imported ORCHIDS in all varieties in their season. Also fine assortment of established ORCHIDS in perfect condition. Watch our inch advertisement from week to week. Write for our price list before buying elsewhere. It will interest you.

GARRILLO & BALDWIN, - Secaucus, N. J.

ORCHIDS

**LARGE IMPORTATIONS
ESTABLISHED PLANTS**

arriving this spring from all parts of the world. Write today for our quotations.

— we always have on hand a large and varied stock. Those especially who contemplate forming or enlarging their collection should write us. Ask for our illustrated catalogue.

VISITORS WELCOME - INSPECTION INVITED

JULIUS ROEHRS CO., Orchid Growers and Importers, RUTHERFORD, N. J.

Cypripedium Leeaunum Var. "Adela"

(C. INSIGNE x LEEANUM)

This cypripedium was raised at Wyndhurst Gardens, Lenox, Mass. Many good things are among the batch of fifty seedlings, but the above variety surpasses anything yet flowered. It is a most pleasing flower, a bold, strong grower, and a welcome addition to our collection.

Its description is as follows: Dorsal 3 inches wide, 2 1-2 inches deep, slightly crenulated on upper margin, two-thirds white with large purplish spots running well up into it, base yellowish green with large brown spots. Petals 2 3-4 inches long, 1 1-4 inches wide, slightly crenulated near base, yellowish green, veined reddish brown; central vein larger, reaching from base to apex; spotted at base. Pouch large, yellowish, diffused with reddish brown. Parentage: A selected yellowish variety of Insigne and Leeaunum Sander's var. A fine bold flower 5 1-2 inches diameter; a strong grower, larger than C. Leeaunum Clinkaberryanum.

Alfred J. Loveless.



Cypripedium glaucophyllum



Cypripedium glaucophyllum is of comparatively recent introduction, and in consequence is not so well known as it deserves. Few cypripediums have such a striking appearance. Though somewhat resembling C. Chamberlainianum, it is unique in form. The labellum, or pouch, is peculiar in shape and color, being nearly cylindrical and without the usual outward curve in the upper part. Its color is a light lavender, profusely spotted with minute dots of a darker lavender shade. The petals are rather short, very hairy at the margins, cream color, heavily blotched with purple. The dorsal sepal is dark green in the centre, with a white margin. The flowers are carried on a long peduncle, which generally bears a number of flowers, usually five or six, but only one at a time, resembling in this respect the South American species. The foliage is glaucous, leaves broad and short. Being a native of southeastern Asia, it requires a moist, warm treatment.

JAMES HUTCHINSON.

SPECIAL ROSE NUMBER
 WITH COLORED PLATE
 Will be Issued March 9

British Horticulture

NEW INTRODUCTIONS OF 1907.

From inquiries made among the leading firms I have been able to obtain some details of the novelties which will be disseminated this year. First, dealing with the carnation, Mr. A. F. Dutton, one of the leading carnation specialists, informs me that his chief novelty is his Improved White Lawson. He claims that this variety is quite distinct from the American sports; it has an improved Lawson habit, with a longer stem and greater perfume; the blooms are of large size and very free. This won the premier prize for 36 best whites at the show of the Winter Carnation Society in December last. This new-comer is to be sent out in March. Mr. Dutton has also White Perfection, a show variety of full size, the flowers being of perfect form. For scarlets, he pins his faith to Britannia, Robert Craig, and Victory. The best pink is undoubtedly Mrs. H. Burnett. This has been raised by H. Burnett, a Guernsey grower. The petals are broad, of good shape, whilst the calyx is excellent. The plant is an easy grower, and seems well suited for market work. The stems are strong and adapted for decoration. This has been certificated by the Winter Flowering Carnation Society, besides receiving an award of merit from the Royal Horticultural Society. Mr. Burnett has a fine, deep heliotrope carnation in Mikado, which is a seedling from Mrs. T. W. Lawson. Ceres is a new fancy, being of a primrose-yellow tint, flaked and splashed with pale salmon. Aurora has blooms of a pale yellow inclined to buff, flaked with bright pink. Cassandra, another seedling from Mrs. Lawson, is of a bright rose pink hue. Rosalind, a white ground fancy, marked with bright pink, and Miranda, white, mottled with pink.

BEGONIAS AND DAHLIAS.

Messrs. Blackmore and Langdon have a batch of new double begonias. These comprise Lady Irene Burgess, a pure white with frilled petals; Lady Muriel Coventry, blush-white, with large, smooth, wavy petals; Mrs. J. Booth, salmon blush, with blooms of a rose-like formation; Mrs. Cathcart, rose colored; Mrs. Sidney Humphries, a novel color, having a yellowish ground with a picotee margin of rose; Mme. A. Patti, soft orange salmon. The frilled single begonias sent out by the same firm will find favor with those growers who consider the smooth-edged varieties too stiff and formal. These are in many shades of color, the soft tints of blush pink and salmon being especially attractive. Peony-flowered dahlias are being made a specialty by Messrs. Hobbies. These have gained many honors at the leading shows. The newest addition is Nicholas II., of a pure white with bold blooms of a good style

and form. Messrs. Jas. Stredwick & Son have some useful new cactus varieties in their collection. Flag of Truce is a great advance on any of the whites previously produced by the firm. The best of the lot is undoubtedly Rev. Arthur Hall, which gained the silver medal offered for the best bunch in the professional class at the National Dahlia Society's show last year. The large sized blooms are composed of a number of long, narrow florets which gracefully intermingle. The color is ruby crimson relieved at the points of the petals by a lighter tinge of the reverse coloring. Messrs. Stredwick consider this their floral masterpiece.

MISCELLANEOUS.

In the flowering shrubs section, Messrs. J. Waterer & Sons of the American Nursery, Bagshot, Surrey, are to the fore with their famous rhododendrons. They have received awards from the Royal Horticultural Society for Gomer Waterer, a delightful blush bloom; Marchioness of Tweeddale, rose, yellow blotch; and Viscount Powerscourt, rosy crimson, black blotch. Among new ferns a prominent place must be given to the remarkable development of *Nephrolepis exaltata*. The various improvements made both in England and America have culminated in *N. todeoides*, whose graceful plummy form has been much admired at the Covent Garden flower market. This has been exhibited by Messrs. T. Rochford & Sons, and it has received an award from the Royal Horticultural Society. Two other new forms are *N. ex. elegantissima*, shown by W. J. Godfrey, and *N. ex. superba*, included in the collection of H. B. May. Another exhibit which was certificated was *Davallia canariensis elegans*, from the nurseries of Messrs J. Hill & Son. Messrs Jackman & Sons have a new clematis, Lady Northcliffe, which is of a rich purple-blue tint, and has been successfully exhibited. In the novelties offered by Messrs. Sutton & Sons is Ivory-white wallflower. The firm have been actively engaged in selecting and improving the variety during the past ten years, and it is likely to prove a very acceptable addition to the garden. Chrysanthemums and sweet peas have already been dealt with from the British standpoint in these pages, and roses are reserved for another letter.

W. J. H. Adsett.

Let Horticulture Work for You

If you have anything to sell to florists, gardeners, park superintendents, seedsmen, let this paper sell it for you. It reaches thousands of good buyers once a week and the cost is only a trifle. Tell your story in HORTICULTURE'S advertising columns, for it will get into good company and the best people in the profession will surely see it and read it.

Rooting Medium for Orchids

IN HORTICULTURE, Jan. 19th, Mr. Orpet revives the old question of the best medium for orchids and takes his usual side-shot at the advocates of leaf soil. Mr. Orpet has by his wonderful success in the cultivation of orchids, which he attributes in part to the use of brown osmunda fibre, converted many to his belief that osmunda fibre is the very best medium. Mr. Orpet, as a successful cultivator, is so well known that anything he says is generally accepted and although most of his advice is good I do not think he is quite fair in his remarks concerning leaf soil. An impartial view of the matter may not be out of place.

Few cultivators entirely agree upon the question of compost. Some succeed with fern fibre alone, others, and I may say, the great majority, use fern fibre and moss and many, Mr. Orpet notwithstanding, still favor leaf soil. For many species the safest and most durable rooting medium is good, soft, brown, osmunda fibre without moss. The physical properties of this material counterbalance its deficiency in plant food which can be supplied as needed, and by the liberal use of Cookson's formula at the right time large and healthy growths may be obtained.

For many species and especially *Odontoglossum crispum* and kindred species leaf soil, if properly handled is an excellent medium. Some splendid specimens have been grown in it and I may also add, many plants have died in it. Where special attention can be given to watering it is the very best but where such is not possible it is the very worst.

Root aeration is as necessary to all orchids as a pure atmosphere, and in a mass of material like leaf soil a complete change of air is only produced by driving out the air in the pot by a thorough watering and allowing the plants to become comparatively dry before watering again and as leaf soil dries very slowly it will be seen how easy it is to produce stagnation by too frequent watering. Larger growths will be made in leaf soil than in any other medium under the sun and providing enough light is given to mature what has been made larger flower spikes and increased vigor will be the result. The outcry against leaf soil was that many growths did not flower and those which did did not have the lasting qualities of flowers produced by the use of peat or fern fibre. This is entirely due to insufficient light to mature the growths. The use of leaf soil has become more general in England in spite of the outcry against it, but it is most frequently used in mixture with peat. The osmunda fibre does not lend itself to mixture so well as English peat as it is far more



CATTELEYA LABIATA
After two years in leaf soil.

easily demoralized by contact with moisture or decaying material.

In the December number of the *Orchid Review* an eminent orchidist describes a visit to an orchid establishment in the North of England and after describing the position, style and eccentric mode of ventilating the *odontoglossum* houses, which, according to orthodox ideas, should be enough to kill any *odontoglossum*, says that the medium used is a mixture of moss and leaf soil (the worst combination on earth) which is used without drainage; then he tells of the vigor and health of the plants concluding by giving dimensions which are almost incredible. I wish Mr. Orpet could see our *odontoglossums* which have been in pure leaf soil about sixteen months. The increased size of the pseudobulbs just finished and the vigor of the new growths, also the size of the numerous flower spikes would delight him I am sure. During the hot weather they showed no signs of distress; the roots were as healthy afterwards as they could possibly be in fern root. For *cattleyas* and *lælias* leaf soil is an excellent medium although for sickly plants I prefer osmunda fibre.

Cypripediums and *masdevallias* take kindly to leaf soil, but in a house where the shading is permanent they will not flower so well although when enough light can be given they flower better. *Cattleyas*, *lælias*, *masdevallias* and *odontoglossums* in leaf soil can stand more direct sunlight without harm than the same subjects in fern fibre.

James Hutchinson

Our Frontispiece

Our frontispiece shows a house of healthy specimens in bloom of *Cattleya Mossiae*, *Cattleya Mendelii*, *Dendrobium thyrsiflorum*, *Miltonia vexillaria* and *Lælia purpurata*. John Nilan, the grower, is a frequent contributor and prize winner at the exhibitions of the Massachusetts Horticultural Society.

The Deciduous Calanthes

HOW THEY ARE GROWN IN THE GREENHOUSES OF
G. M. WHITIN, WHITINSVILLE, MASS.

As the flower spikes are cut the pots are placed beneath the bench where it is light and dry but where there are no hot water pipes and the temperature runs about 60 degrees and they are kept here until the growth starts. The bulbs are then shaken out of the soil, the roots cut off close to the bulbs, the bulbs set in shallow boxes partly filled with sand and the boxes set on the benches well up to the glass, the glass having been first lightly shaded. The boxes of sand are kept always moist. The roots soon start, and when these are about an inch long the plants are potted in their flowering pots.

The potting material is rotted sod with the fine soil sifted out; a little spent cow manure or leaf soil is added, with a little sand and bone meal which has been damped for two weeks or more well mixed in. I fill the pots about two-thirds with crocks, filling with compost up close to the rim, being sure to make it firm, then making a depression to set the bulb in, being careful not to injure the roots but pressing the soil firm around the bulbs and using a small stake to steady them until they take root, after which the tie is cut and the stake taken away.

When the bulbs are potted they are watered; then they are looked over every morning and if any plant seems dry it is watered and every bright morning the plants are syringed until they commence to flower, when the syringing is stopped, but the watering is kept up as long as the foliage is green. When the young bulbs commence to swell we give them liquid manure until part of the flowers are open.

When the weather becomes warm we put up a cloth shading on rollers, which is let down when the sun is bright until about October first, when the shading on the glass answers.

To have good bulbs we must have good foliage; good bulbs mean strong spikes and good flowers. In making the manure water we use hen manure, bone meal, soot and sheep manure in equal parts.

Calanthes like a warm house to grow in; they do best at 70 degrees at night, but we cannot keep it so warm in spring and fall; 60 at night in the spring is all we can do, but in summer we run it up to 70. Taking the solid bottom out of the bench and putting in a slat bottom so the heat from the pipes comes direct on the plants helps greatly when the house is cool.

Calanthe Veitchii or Veitchii superba, if it can be gotten, and vestita luteo-oculata, are the two best to begin with; grow them one bulb to a pot, using 4, 5 or 6-inch pots, according to the size of the bulbs.

I Geo McWilliam

Roses Under Glass

II.

Careful selection of wood is a very important factor in successful propagation, the most experienced men usually being delegated to this task. As the future constitution of the plant depends largely upon the character of the wood selected, it is essential that in order to maintain a continuous growth of healthy, vigorous stock, we take only the most suitable wood, passing by all weak and sprawly stems, rejecting that which shows signs of reduced vitality, and cutting wood which is in a half-ripened condition from the healthy, strong growing plants.

Considerable difference of opinion prevails as to whether "blind" wood, or flowering stems make the best cuttings; some favor the flowering stems, others are just as strongly in favor of good blind wood, claiming that the after treatment of the cutting is of greater importance. We must also take into consideration the expense attending propagating from flowering stems. Few growers would care to denude their plants of buds when, by reason of the dark, short days which prevail at this season, roses are scarce and command good prices.

The cutting table should never be piled up with wood; it is far safer to take off a small quantity at a time and keep it well moistened during the process of making it into cuttings.

CUTTINGS.

Opinions regarding the style of cuttings are almost as numerous as are the growers, some consistently advocating one eye, while others as earnestly advise two and three eyes. For Beauty, Richmond, and varieties from which bottom canes are desirable, the three-eyed cutting seems to be most generally used. Some growers condemn this practice, but others who have tried it with success are content to stand by it.

In making the cutting use a sharp knife and cut clean and short; not a long slicing cut, but one almost straight across, as the smaller the wound the quicker will be the healing process and more uniform the arrangement of the young roots. The cuttings should not be allowed to remain long on the table in an exposed condition, but as soon as possible after being made should be placed in the sand. To perform this operation a rather thick bladed knife is necessary; with this draw a line straight across the sand, making the cut about two inches in depth; this brings the base of the cutting about midway between the surface and the bottom of the sand, thus securing a uniform amount of heat and moisture where these essentials are least liable to fluctuation.

The cuttings should then be put in about an inch apart, taking care that each cutting reaches the bottom of the cut; press the sand down firmly around them and proceed with other lines, leaving a space of two or two and a half inches between each row. Beauties, on account of their heavy foliage, require more room. Water them thoroughly and shade carefully. Shading is not meant to exclude the light, but to protect the cuttings from the direct rays of the sun, and should be removed as soon as the sun ceases to shine on the bench.

A good way to arrange the shade cloth is to loop it on to a wire stretched full length of bench and fastened to the sash bars, posts, or whatever is most convenient, allowing it to hang down so that the lower edge of cloth

is about even with or a little below the top of the bench. Many growers attach the lower edge of the cloth to a second wire, which is fastened to the bench; this prevents the cloth from blowing onto the cuttings on windy days. During bright weather spray the cuttings two or three times each day, as the moisture on the foliage is a great factor in helping to produce a good and uniform strike.

The temperature of the sand should be about 60 to 62 degrees, with a house temperature of 50 to 52 degrees. This low temperature of the house is necessary to keep the buds from starting and making wood while root formation is in progress. Some growers use a higher temperature both in the sand and in the house in order to work off the batch in shorter time, but the time thus gained is lost when the young stock is potted; the cooler handled stock goes to work at once and soon makes up for lost time, both in size of plant, quality of foliage and general constitution.

A careful examination of the sand every morning before watering is absolutely necessary, as the cuttings are very sensitive to over-watering and seldom survive a drying out. Given proper attention it is reasonable to assume that the cuttings will be ready to lift and pot in from twenty-eight to thirty days.

John S. Johnston

Children's Gardens and the Trade

The Children's Garden movement is today beyond the experimental stage. Since its beginning it has been slow, up hill work and required energetic, enthusiastic, hard working believers to keep it alive. Why has this been so, why have not the trade done more to help along this most important movement? Surely the gardening trade will benefit more as the result of children's gardens, both school and home, than anyone else. It is to them a straight business proposition.

We have today a general movement toward home gardening, and though brought on through the press the school gardens have taken no little part in bringing gardening home to the parents. The trade has already felt this movement, more seeds, more bulbs, more plants and more flowers are sold today than ever before, but very few people know how to spend money on their garden, and why, because they have never had anyone to tell them how or teach them what gardening really means. At the convention of American Florists, held last summer, the address by Mr. Hallock on teaching horticulture in public schools is the first important step that the trade has taken in the matter of children's gardens. It seems deplorable to the writer that this step, which is of such vital importance to them, has been so long in coming. Let it be but the beginning of a new force. Let every florist, seedsman and gardener help the school and home gardening movement throughout the country.

Today we have the backing of eminent and able educators who say that school gardening is the best form of industrial education and that it has advantages which cannot be obtained in any other study in a school curriculum. We have the children with us in the work, they are enthusiastic, energetic and love it. It makes no difference whether they are good boys or bad boys, sissies or toughs, to put it in common language, they

love it equally well, possibly giving the toughs the first place. From a civic point of view children's gardens are going to mean more than anything else to the future welfare of our country. From the trade's point of view it means more goods sold and a demand for higher quality. Your customers will know what they want and go where they can get it. There are some gardeners and florists who have woke up to the value of this movement. They are pioneers and should receive all credit due them for their good sense and generosity.

What can the trade do? First, it can help financially, not so much the mere giving of material as seeds, bulbs, plants, etc., as in helping to procure land, manure, labor and brains to put this land into proper condition and to plan the work. Here come in technical points which can be answered and which the public find difficult; they are always puzzled as to what preparation should be given to the soil and how to begin work, what to plant, how to plant them and hundreds of points which the professional can easily answer. Another expense in school gardening work is tools. These can be supplied at cost and practical points given as to what to select. They must be real tools, not play things, though light and durable. Children like to buy their own seeds, and as they get full benefit of the crop let them furnish out of their own money the cost of the seeds, whether they select them themselves or not. So many tradesmen have thought that all it was necessary for them was to give a lot of seeds or plants, but that is not all that is wanted; it is advice and enthusiasm as well.

The greatest expense in all children's garden work today is in a director, who must know how to garden and how to handle children. He is of vital importance to the success of the movement. Youngsters require a leader. It is not enough to give them a piece of ground, some tools and seeds and tell them to go ahead, they want someone to show them how in the first years and they want someone who is interested in their results. Often a director can be found who under some expert can readily manage a successful garden.

Horticultural societies, florists' societies, village improvement societies, etc., should plan exhibitions of children's garden products, and the leaders in these movements should be local florists, gardeners, nurserymen and seedsmen.

When the trade does wake up to the value, not only the aesthetic but the actual cash value of school gardens, they will realize that to take active part in it is worth both time and money to them. They can have no better advertisement if they do it right and they will get up a strong sentiment among the children which will mean a safe, sure and permanent investment for future business.

The Massachusetts Horticultural Society is doing much along the line of school garden work. Their committee is in close touch with this movement throughout the country and their work is increasing rapidly. Let other societies take up the work, and let the trade join in and help those who have fought so hard and with so little encouragement to put the movement where it belongs. It is a good business proposition and a great thing for the children.

Henry Dutton Adams.

HORTICULTURE

VOL. V

FEBRUARY 23, 1907

NO. 8

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292
 WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 05.

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;

six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

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COLORED SUPPLEMENT WITH THIS ISSUE—Oriental Poppy Mrs. Perry.

Help the
school gardens

We hope that every one to whom this paper comes will read carefully the interesting and convincing article concerning the relations of children's gardens to the horticultural trades, from the pen of Henry Saxton Adams, which appears on another page. Mr. Adams has been one of the hard working, enthusiastic, and unselfish leaders in the long uphill struggle on behalf of this patriotic work which is now just beginning to get recognition. The appeal should meet with an appreciative, enthusiastic response from every horticultural organization in the land.

Tightening
the ties

The sentiment most strongly brought out in the discussion in the Gardeners' and Florists' Club of Boston in regard to the proposed laws regulating the use of steam boilers is that of mutual responsibility and the recognition of the principle that the troubles of one should be the concern of all. We do not think that this sentiment has been fostered to the extent it should be by the florists' organizations, membership in which is not infrequently more in the nature of an "armed truce" than an efficient fraternal reality. But we see indications of the growth of a more sensible feeling, gradual but steady, and much promise for future advantage to all because of it.

The
rise of the orchid
as a commercial flower

Nothing in the history of the flower trade for the last two or three years is more noticeable or suggestive than the onward progress of the orchid as a commercial flower. From an uncertain, intermittent demand, the orchid industry has now developed into regular and stable lines, the call for the blooms coming from widely separated localities and furnishing conclusive evidence of the place in the public estimation to which the regal cattleyas, lœlias, phalænopses, dendrobiums, vandas, cœlogynes, oncidiums and other gems of the orchid world have already attained. Among the leading and progressive florists the orchid has by general consent, been accepted as an indispensable factor in their decorative work and a standard item in their daily stock. Thus, at last, comes the reward to the enterprising, far-sighted collectors and specialists who have, year after year, kept this choicest of all flowers constantly before the public by means of the exhibitions throughout the country and have with remarkable tenacity of purpose and at enormous expense done more than all other instrumentalities to place the orchid in the position which it merits. It will be a long long time before their star will wane or their pre-eminence suffer from the rivalry of any other class of material.

The Greek
in the New York
flower trade

A movement among the Greek florists of New York to organize a local association or club for alleged social and benevolent purposes seems to have been the basis of a rumor that the Greeks contemplated a union for the purpose of affecting to their particular advantage the wholesale flower and plant markets. The Greeks deny that they have any such intention. They call attention to the fact that people of other races have organizations for mutual advantage and justify their present movement on these grounds. Their stand seems a reasonable one. We can see no benefit, but on the contrary a considerable injury, that may come to the flower trade through the stirring up of an antagonistic feeling between the Greeks and the rest of the flower trade of the metropolis. The Greek element is here to stay, undoubtedly, and while it is true that their main reliance is the cheap street trade yet there are those among them who have aspired and attained to something better. Their indispensability to the trade, in the distribution of the enormous product coming daily to the city, is well understood by the wholesale flower trade but we do not doubt the latter's ability to take care of its own interests, and we apprehend no serious results from the proposed organization of the Greek fraternity but we do see possibilities of harm in any hasty talk tending to instigate discord and incite factional feeling.

NEWS OF THE CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

Some as yet unexplained mishap in Uncle Sam's mail service prevented our giving our usual prompt account of the monthly meeting of the New York Florists' Club last week. It was a good meeting, many matters of general interest being disposed of and some interesting talks being given by members. Among the latter were Messrs. Guttman, Young, Traendly, Butterfield and Shaw, who told of their enjoyment of the Toronto meeting of the American Carnation Society, and inspired a vote of thanks to the Toronto people for their many courtesies extended to the New York visitors, also Messrs. O'Mara and Birnie and President Totty, who expressed views regarding the advisability and practicability of greenhouse inspection of carnations in addition to the usual exhibition inspection of blooms in deciding upon their commercial worth, the consensus of opinion being that the carnation society should have adopted some such system as is practised by the New York Florists' Club in the case of candidates for certificates.

There was a good exhibition of carnations on the tables, including Georgia and Harvard from J. D. Cockcroft, Toreador and Mabelle from H. Weber & Sons, Winsor from F. R. Pierson Co., Welcome from Dailledouze Bros., Imperial and Pink Imperial from John E. Haines, a seedling from E. L. Enggren and Winsome and No. 32 from John Reimels. A certificate was recommended for Welcome by the award committee and preliminary certificates were given to Harvard, Toreador and Reimels' No. 32. A. C. Zvolanek showed a fine collection of new sweet peas, which were given a cultural certificate. F. Boulon showed Princess of Wales violets.

COLUMBUS FLORISTS' CLUB.

The regular first meeting for the month was held on the 12th. President Stephens was in the chair, and Secretary McKellar also present. The attendance was good. The important matter of how to induce the many members of our club who are behind with their dues to pay the same came up for a full discussion. After a careful consideration of this matter it was voted, that after proper and fair notice by our secretary, the names of those in arrears be dropped from the membership list. Our club will, as in previous years, put up and distribute to the pupils of the public schools the penny packets of flower and vegetable seeds; and M. B. Faxon was given charge of the matter. This movement, although in its infancy here, has and is accomplishing most splendid results. Vice-President Currie exhibited a very perfect specimen *Selaginella caesia arborea*, for which the flower committee awarded him 15 points. The subject of an elaborate chrysanthemum show for the coming autumn received attention, and all present were very enthusiastic regarding the matter. Andrew Blum, who is with the Clover Hill Greenhouses, was elected an active member.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The monthly meeting of this club on the evening of February 19, was a very large and enthusiastic one. The great all-absorbing business of the evening was the discussion of the proposed steam boiler inspection law now before a committee of the State legislature. Previous to the meeting a preliminary session of the executive committee and interested growers was held and they reported to the club a recommendation for the appointment of a committee to appear at the State House in opposition to the bill and an appropriation of \$100 for the securing of legal assistance. A spirited debate followed the presentation of this resolution, in which many of the leading local growers participated. The matter was finally adjusted by the unanimous adoption of a vote recording the club's sentiments in opposition to the proposed legislation and providing that as many members as possible, under the leadership of F. E. Palmer as spokesman should be present at the special hearing on Thursday.

C. W. Ross was to read a paper on road construction but being unavoidably absent sent the paper and it was read by J. H. Morton. It was an admirable production showing the evidence of careful preparation by a man well-qualified by experience and ability. He called attention to the neglect of or unwise methods in the care of country roads in this country as compared with those found in England and other European countries. He asserted that the superiority of the roads in Europe is due to the perfect systems of repair and constant well-directed care. He treated of the comparative desirability of the various systems of paving, describing each in detail and quoted cost of construction, paving, etc., for various widths and grades with each method and extolled the system of State road building in smaller communities as now carried on in Massachusetts. The paper is to be printed and a copy furnished to each member of the club.

The exhibition comprised a splendid plant of *Primula Kewensis* from the greenhouses of Gen. Weld, Boston violets and sweet peas from Wm. Sim, a collection of cecyogynes from W. N. Craig in which were *C. cristata*, *Lemoniana*, *C. n. alba* and *Chatsworth* variety, also the following *Cattleya Trianae* forms: *Leeana*, *Empress of India*, *alba* and *Backhousiana*. Other exhibits were carnations from S. J. Goddard, H. A. Stevens Co., who had a handsome light-pink seedling, Mrs. J. P. Snow with a scarlet sport from Harlowarden and a group of *Begonia Erfordii* of a very fine type from Thos. H. Westwood.

AMERICAN CARNATION SOCIETY.

Carnation Registered.

By Wa-no-ka Greenhouses, Barneveld, N. Y.—Climax, a decided improvement over Enchantress, being a shade or two deeper, of better form, stem and calyx and more productive.

ALBERT M. HERR,

Lancaster, Pa.

ST. LOUIS FLORISTS' CLUB.

The St. Louis Florists' Club's carnation meeting on last Thursday afternoon was a grand success both in attendance and exhibits. Long before the meeting opened the hall was crowded with growers, retailers and wholesalers to view the exhibition. The exhibitors were as follows:

Chicago Carnation Co., Aristocrat; F. R. Pierson Co., Winsor; H. Weber & Sons Co., Mabelle; Bauer and Smith, May, a fine light pink; John E. Haines, Imperial, John E. Haines and Pink Improved; A. C. Brown, a fine show of new seedlings. These were all staged for exhibition only.

The awards in the competitive displays were as follows:

25 red—first, Wm. Winter, with Cardinal; second, John Steidel, Cardinal; third, A. Jablonsky, Robert Craig.

25 light pink—first, Oakland Floral Co.; second, A. Jablonsky; both Enchantress.

25 rose-pink—first, J. Steidel; second, A. Jablonsky; both Rose-pink Enchantress.

25 dark pink—first, Oakland Floral Co., Lawson; second, A. Jablonsky, Aristocrat.

25 white—first, A. Jablonsky, White Perfection; second, Wm. Winter, Lady Bountiful.

25 variegated—first, A. Jablonsky; second, J. Steidel; both Mrs. Patten.

Aristocrat, from Chicago Carnation Co., scored 90 points; Winsor, from F. R. Pierson Co., 86; Mabelle, from Weber, 74; May, from Bauer & Smith, 80; Gov. Deneen, from A. C. Brown, 65.

The flower show committee in its report advised the members to drop the holding of a show for this year, and it was so voted. It was voted to subscribe \$100 to the proposed S. A. F. National Flower Show to be held in the fall of 1908 at Chicago. J. F. Ammann of Edwardsville, Ills., president of the Illinois State Florists' Association, was present and invited the members to attend the society's second annual meeting Feb. 19-20, 1907, at Bloomington, Ills., and quite a delegation promised to attend. Luther Armstrong, one of the charter members of the club and its first secretary, was called upon by the president for a talk, and told the members how in June, 1887, a few florists organized this club, which has now grown to its present size. Mr. A. C. Brown of Springfield and Dr. A. S. Halstedt of Belleville also made some well-pointed remarks. A few good discussions were brought out from the question box. This ended the meeting and everybody went home much elated of the pleasant meeting of friends in the trade.

NASSAU COUNTY HORTICULTURAL SOCIETY.

About thirty members were present at the meeting on February 13, in Glen Cove, N. Y. Valentine Cleaves received the prize for 12 carnations arranged for effect; a cultural certificate went to Felix Mense for violets. Among the exhibits were fine carnations by C. F. Bertanzel of Roslyn and a handsome palm by Thomas Harrison. A committee was appointed to arrange for the fall exhibition.

CHICAGO FLORISTS' CLUB.

The Chicago Florists' Club enjoyed a gala day on Thursday last on the occasion of the annual carnation exhibition which has for a series of years proved to be one of the most interesting events in the annual proceedings of the organization and which on the recent occasion proved even more successful than ever before.

Handel Hall where the club meetings are held was half filled with exhibits from the houses of local growers and numerous novelties forwarded from distant points. The attendance was large and the monthly meeting of the club was of unusual interest.

W. N. Rudd, F. F. Benthey and Jas. G. Hancock served as the committee on examination of exhibits and made a report commenting on the individual products and the scaling of all novelties, a certificate being awarded to varieties scoring 85 points or more.

Among the new varieties tabled were Bassett & Washburn's seedling No. 20, a scarlet product of Crane x Prosperity a flower of undoubted merit, to be put out next year. Scaled 87 points. Certificate.

Baur & Smith showed a delicate pink variety, pleasing shade which though not in the fancy class may prove a good commercial variety. Scaled 78 points.

R. Witterstaetter's new white Snowdrift which scored 84 points is in the absolutely pure white class and possesses many qualities which will doubtless bring it into prominence.

M. A. Ryerson exhibited a red sport of Lawson which the committee classed as apparently identical with Red Lawson.

Among the Chicago Carnation exhibit was a vase of Red Riding Hood, which scored 82 points.

John E. Haines of Bethlehem, Pa., shipped on vases of Imperial, and its offspring Pink Imperial which showed up well, scoring 79 and 84 respectively.

H. Weber & Sons Co., of Oakland, Md., showed Mabelle and Toreador which appear to have qualities making them valuable additions to the present list and which were given by the judges 79 and 85 points respectively, the latter being entitled to a certificate and will be put out next year.

Much attention was drawn to W. N. Rudd's vase of seedling No. 163, '02 a scarlet of unusual merit which showed many points which will doubtless prove this variety to be a winner.

One of the main features of the show was the handsome vase of Winsor tabled by Jensen & Dekema and shipped by F. R. Pierson on the Monday preceding. This flower scaled 88 points, the highest of the novelties presented, and created much interest.

The other exhibitors who showed flowers of a very high order were all local growers, and their exhibits were made up largely of commercial or standard varieties as follows, with the committee's remarks appended: Jensen & Dekema: "Fine exhibit of standard varieties"; Peter Reinberg: "Excellent exhibit of standard varieties"; J. A. Budlong: "A number of vases of standard varieties excellently done"; Chicago Carnation Co.: "A number of good vases of standard varieties and Red Riding Hood, also very fine vases of Aristocrat and White Perfection"; A. Then: "A number of good vases of standard varieties"; Poehlmann Bros.

Company: "An excellent exhibit of standard varieties, a vase of White Lawson especially commended." President H. N. Bruns placed on the table a bunch of his noted lily of the valley.

The meeting which followed the exhibition was largely attended and was of unusual interest. Several new members were admitted and a number present offered remarks generally applicable to the subject of carnations, among the speakers being W. N. Rudd, Aug. Poehlmann, J. A. Valentine of Denver, Will Kennedy of Milwaukee, P. J. Hauswirth, P. J. Foley and several others. The next meeting will occur on March 14th, the subject being the timely one, "Easter Plants."

NORTH SHORE HORTICULTURAL SOCIETY.

The sixth annual banquet and entertainment of this society took place in the Town Hall, Manchester, on February 15th. In the absence of President McGregor, Vice-President Thomas Jack presided. About 150 members and friends were present. The gentler sex was well represented. Among the visitors from Boston and vicinity were J. A. Pettigrew, J. W. Duncan, T. H. Westwood, president of the Gardeners' and Florists' Club of Boston; J. K. M. L. Farquhar, Maurice Fuld, J. P. A. Guérineau, F. A. Rein, Julius Huerlein, Mr. Benwell and Daniel Iliffe.

The entertainment was in charge of the Forrest Concert Co. of Boston, and a very fine program was rendered, after which dancing was indulged in.

In the eight years of its existence the society has grown from half-a-dozen members to 188; a good record and going one better each year.

WILLIAM TILL.

MORRIS CO. (N. Y.) GARDENERS' AND FLORISTS' SOCIETY.

The February meeting of this society was given in great part to discussing plans for the future and trying for new ideas on an old subject, about twenty-eight members taking active part. March 13th is to be carnation night. We are promised quite some novelties, but we want a whole lot of them. We are to have many competitive exhibits of standard varieties. Carnation night last year almost made us famous. We are to have three short papers, by Wm. Duckham, on "Planting in from pots, versus from open ground"; R. M. Schultz, "The commercial aspect of the carnation, best varieties, etc.," and Percy Herbert on "Methods of propagation." Each paper will be followed by a general discussion by the members.

E. REAGAN.

SCHEDULES FOR THE GREAT ROSE SHOW.

In the schedule of the American Rose Society, Class F, 168, "A group of decorative plants, covering at least 100 square feet of floor space, a prize of \$25.00 by W. H. Ernest, Washington, D. C." should have appeared in the schedule of the Florists' Club of Washington, D. C. The combined schedule of the prizes offered by the two societies can be had on application to Charles McCauley, secretary, 18th and Kearney streets, N. E., Washington, D. C.

NEW ENGLAND DAHLIA SOCIETY.

The secretary of the New England Dahlia Society reports that the membership is constantly increasing and that the executive committee has decided to issue a monthly bulletin beginning with March, which shall be called the Dahlia News. It will contain each month at least one article by some renowned grower of dahlias on their cultivation or their peculiarities. It will also contain the dahlia news of the world, inform the members what is going on, give description of the new varieties that are introduced, and in general supply the information that the dahlia growers are looking for.

The last page of the proposed paper will be given up to advertising, and returns for same, it is expected, will pay for the cost of publishing the paper. We feel that the society will outlive in membership any of the others of same nature in this country or Europe, as we expect a membership of fully 1,000 by the end of the year. We have now members residing in every State in the Union, and the interest given to the dahlia at large is surprising.

The secretary of the New England Dahlia Society would appreciate very much if the secretaries of the different horticultural societies would inform him of the date of their shows in which dahlias are included, so the members may be informed and exhibit wherever and whenever possible.

All growers of dahlias should join the society at once in order to get the benefit which a membership will give.

Respectfully yours,
MAURICE FULD, Sec'y.

CLUB AND SOCIETY NOTES.

At the annual meeting of the Wisconsin Horticultural Society at Madison on February 5 officers were elected as follows: President, R. J. Coe, Ft. Atkinson; vice-president, W. H. Hanchett, Sparta; secretary, to be appointed.

The Alabama State Horticultural Association at its annual meeting on February 6-8 re-elected W. F. Heikes of Huntsville for president and Prof. R. S. Mackintosh for secretary. The next annual meeting will be held in Birmingham.

The program of the Illinois State Florists' Association, whose meeting is scheduled for the 19th and 20th, in Bloomington, presents attractive topics by notable speakers. The local florists' club entertain the visitors on the evening of the 19th.

The Huntington Horticultural and Agricultural Society will hold its annual carnation exhibition in the Trade School building, Huntington, N. Y., on the evening of February 26. Exhibits should be addressed to Walter Shaw at the Trade School building.

One of the Chicago florist papers remarks that "Crimson Rambler is not a suitable rose for outdoors." "The leaves take on an unattractive green" and "the flowers are poor in color!"

AMERICAN CARNATIONS IN ENGLAND.

Papers Read Before the American Carnation Society at Toronto.

AUTHOR, C. ENGELMANN.

Winter flowering carnations were grown for the English markets already some thirty years ago. The first were French varieties, and as the demand for choice flowers increased, new kinds were raised, some of which enjoyed great popularity for a number of years, and, though in size and length of stems, they could not be compared with the present day carnation, in color, fragrance and productiveness, they left little to be desired.

The first carnations of American origin were introduced into England about fifteen years ago, and as I am told by one of the first importers, turned out to be rather a disappointment. Of later varieties Daybreak was already grown in considerable quantity. However, it was not until the Lawson made its appearance that the boom began. Even then there were but few growers who understood the cultivation of the "divine flower," and I am afraid Mr. Fisher would not have recognized his own child had he seen it in some of the English greenhouses. There were a few though that did the trick, and their produce made handsome prices in Covent Garden market. This, of course, was the best means of popularizing the flower, for the English florist is as much after the L. S. D. as his American cousin is after the dollar. There was money in growing carnations and consequently it was taken up by many new firms. Every new variety that was boomed in America was eagerly imported, grown and very often thrown away the first year, as many were quite unsuitable for the English climate.

Then came the glorious Enchantress and with it the germs of the new disease, called the "carnation fever," which attacks flower-growers and flower-lovers. The germ has not been discovered yet, but it is there right enough, I have no doubt, and it spreads fast, too, and makes the disease very catching. I caught it a few years ago, and am not likely to get rid of it again, for it seems incurable. It is a comfort that it is a painless disease, at least as long as the market-prices for the carnation blooms are good. However this may be, there is no doubt that Enchantress has helped to popularize the American carnation more than any other six varieties taken together. If there is a new variety being introduced the first question generally is: "Is it as good as Enchantress?" But, alas! I am sorry to say those that have come since have not been as good. But perhaps I should not say: I am sorry; rather: I am glad they have not been as good, for I think it is really a blessing in disguise that nothing up to the present in other colors has come up to Enchantress, as it shows the hybridiser a goal—well worth obtaining—plainly before him, and it is certainly easier to work towards something that we can clearly see before us, than to try reaching an ideal that only exists in our imagination. However, I am afraid I am getting off my track, which you will kindly excuse, for it is one of the symptoms of the "carnation fever;" if you start one of them that got the complaint going on this kind of subject,

New Orchid-Flowered Sweet Peas

These are a distinct "break" in Sweet Peas, differing from the standard sorts by the extraordinary size of their flowers, usually measuring 2 inches across, and by the standards being crinkled and wavy, while the wings are large and spreading. Another splendid feature is that a very large percentage bear four blossoms to the stem, which are long and strong. To sum up, they possess every characteristic that can be desired in Sweet Peas, and will undoubtedly supersede standard sorts of same color as soon as they become more plentiful.

Countess Spencer. A lovely clear pink, shading darker at the edges. 10c per oz., 25c per ¼ lb.

E. J. Castle. Rich carmine-rose, shaded with salmon, very striking, especially under artificial light. 17c per pkt., 5 pkts., 75c.

Frank Dolby. The largest and finest pale lavender-blue. 17c per pkt., 5 pkts., 75c.

Gladys Unwin. Charming shade of pale rose-pink; extra long stems and very valuable for cutting. 10c per oz., 25c per ¼ lb.

Helen Lewis. (Orange Countess) Brilliant orange-rose. 25c per oz.

Helen Pierce. This is the new gloriole-flowered Sweet Pea, being marbled blue on a white ground, with the veins showing a little deeper exactly like a mottled Gloxinia. 15c per oz., 50c per ¼ lb.

John Ingman. Rich salmon-rose. 15c per oz., 50c per ¼ lb.

Mrs. Alfred Watkins. A superb pale pink similar in shade to the old Princess Beatrice. 17c per pkt., 5 pkts., 75c.

Nora Unwin. The finest white now in existence. 17c per pkt., 5 pkts., 75c.

Phyllis Unwin. A veritable giant among Sweet Peas; color a deep rose-carmine. 15c per oz., 50c per ¼ lb.

**DREER'S GARDEN BOOK
and Florist's Catalogue**
now ready and sent on application to all florists.

Henry A. Dreer

714 Chestnut Street
PHILADELPHIA - - PA.



it will take a mighty effort to stop him.

The American carnation stands in England today something like this: There are, I should say, about one million plants grown for the production of cut-flowers alone. Ninety per cent. of these at least are cultivated in pots. Of the remaining, two-thirds are planted on raised benches and one-third on solid beds. The latter two methods are gaining in favor, and in ten years' time I should not be surprised to see the state of things reversed. Besides these, there are a large quantity grown in private establishments, and hardly any of the up-to-date estates are now without their special carnation house. The number of the American kinds grown in this way I should estimate at 100,000 to 200,000. Ninety-five per cent. at least are grown in pots. This number is constantly increasing, and there is no doubt that the modern winter-flowering carnation is beginning a fight for supremacy with the chrysanthemum, which has hitherto been the unsailed queen of the autumn and winter. I calculate that in five years' time there will be at least three times the quantity grown in England.

The continent of Europe is a little behind England as regards the popularity of the American carnation. However, the "fever-germ" has crossed the channel and the North Sea and the "carnation fever" has caught on. In Germany, a very limited number of growers have cultivated the American kinds for a few years, and managed to keep the names secret for a time. This game does not do for a long time in the twentieth century. There are too many trade papers about, and if there is money in a thing it will come out. This is as it should be; then after all that is said and done the

policy of the open door is the only progressive one and beats the surrounding of places with a Chinese wall always in the end. Now that the secret is out the German trade is all the more eager to obtain the wonders from across the Atlantic, and consequently a good trade is being done with young plants.

This is not only the case in Germany, but also in France, Belgium, Russia, Denmark, Austria; in short, all the countries on the continent of Europe are going in for the American carnations, and I don't think I am over estimating it if I say that within five years there will be fifty times more American carnations grown than there are today. I know of one German grower who only about two years ago purchased some twenty-five hundred dollars' worth of carnation stock from the South of France, and after giving the American varieties a trial this season intends to discard all his French varieties and grow the American ones in their place.

Even beyond Europe the fame of the "divine flower" has spread, for, only a month or so ago, I sent a fairly large consignment of young plants to Egypt, which arrived well, and, I hope, will do well. That they are going ahead in Australia is well known. About Asia I cannot say anything, as I have sent no further than the Crimea that way. Anyhow, in four continents out of five, the American carnation is known and grown, and the rapidity with which it has found its way is nothing less than phenomenal. This may partly be due to "booming," but vastly more because of its sterling value.

All this is well and good, but two great dangers are looming ahead. One: How long will it go on before the supply is in excess of the demand?

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Place your orders early for rooted cuttings. Prices \$6 per 100, \$50.00 per 1000. DISCOUNT FOR CASH WITH ORDER

CUTTMAN & WEBER
The Wholesale Florist
of New York
43 W. 28 St.,
Lynbrook, L. I., N. Y.

The other and greater: How soon shall we be swamped with innumerable quantities of novelties, which, according to the raiser, will all be better than Enchantress, but which in reality will only be useless rubbish, that must disgust the straight and honest florist and damage the trade for those few new varieties that are really good?

To discuss how the American carnation as seen in England compares with its brother in the states, or how English methods of growing are inferior or otherwise to the American, would lead too far. However, one thing I may be allowed to mention by way of apology. If some of you should ever visit one of our English carnation shows in mid-winter, and find the blooms inferior or perhaps poor in comparison to your perfect specimen, please remember that the chief factor in producing first-class blooms in winter, is the light, and then take into consideration that on the 21st of December the sun rises in London (or rather is supposed to rise) at 8.05 and sets at 3.51. This is according to the almanac; in reality, it does not shine at all through November, December and January—at least, not to any appreciable extent. I believe that even your best growers, if they came over here, and tried their hand at the game, would be rather disgusted with the result. For this reason alone, I am afraid we shall never be able to produce as good flowers as you in mid-winter, unless you send Mr. Edison along with one of the Chicago packers, who, between them, might manage to bottle up some of the surplus sunshine during the summer months, that we could let loose in our carnation houses when it is wanted in the winter. Until that happy time arrives we shall have to be satisfied with what we can get in the ordinary way.

Thanking you for the honor you have given me in asking for and listening to these notes, which, I regret, I am not able to read personally, I will conclude with the best wishes for the future success of the American carnation in general, and the American Carnation Society in particular.

Vivat, crescat, floreat!

AUTHOR, A. F. DUTTON.

It is now some five years since "American Tree Carnations" were first grown and shown to perfection in England and I have the pleasure of being the first to exhibit them in the way they are now generally shown here. My first exhibit of note was at the Temple, 1903, when they caused quite a sensation, and I may say made the great start to their now present popularity. They first met with a great deal of criticism from the Border Carnation fancier, and I was told by one who is considered the finest raiser of this kind in our country: "Well, Mr. Dutton, I congratulate you on your exhibit, nothing could be more beautiful." With this remark I was quite content. Now they are being grown on quite a large scale as a market

flower, where before only the inferior and short-stem varieties were seen, such as Duchess of Fife, Uriah Pike, Miss Joliffe. But I may add there is a great difference in the quality of different growers, and it is only the few who can grow to perfection.

Last month the newly formed "Winter Flowering Carnation Society" held a very successful show at the Botanic, London, in which the American varieties predominated, there being classes for 36 and 18 bloom of a color, also for groups of cut bloom. The show was in every way a success and a fine lot of bloom was staged.

I may give a few lines on the new varieties that are being raised from your imported varieties. I consider that before many seasons we shall have some very fine varieties, quite a credit to their parent Britannia, which is being disseminated this year, and is the finest scarlet I know. It puts Robert Craig and Victory in the shade, and I firmly believe that we shall have other varieties in time of equal merit. But it is not for me to dwell on the possibilities of the future, but the past and present, which are facts.

In regard to shipping, this will always be a great drawback to business on a large scale, as it is far too uncertain to please the majority of receivers here. I myself have received very successful shipments, but these have been few and far between; for instance, one consignment turned out good, another from the same grower turned out the reverse, and the loss was 80 per cent. It would have been policy to have burnt the entire lots on arrival, as the survivors were weak, unhealthy and infected with rust, also "spot." I often feel I should like to think I had never to ship any more, as it is always a nightmare when shipping time comes in the spring.

Many varieties well spoken of and advertised in your papers as gaining awards of merit, prove very poor varie-

ties with us, such as Fiancee, Cardinal, Ethel Ward, Candace, Indianapolis, Nelson Fisher, Abundance and Flamingo. If this continues, your European buyers will certainly decrease, as it is quite difficult with the losses we sustain through shipping, to make the game worth the candle, even when procuring really first-rate standard varieties.

PERSONAL.

Visitors in Boston: C. B. Weathered, New York; W. A. Manda, So. Orange, N. J.

Visitors in New York this week: Fred Breitmeyer, Mt. Clemens, Mich.; J. C. Vaughan, Chicago; H. L. Jansen, Berlin, Ont.

The youngest child of John Scott of Brooklyn, N. Y., a boy of 14 months, has been critically ill with pneumonia, but the latest accounts indicate improvement and probable recovery.

Among recent visitors to Des Moines, Ia., were Carl Cropp, Chicago; Charles P. Braslin, San Jose, Cal.; Prof. Brown, Washington, D. C.; Mr. Crossland of Northrup, King & Co., Minneapolis; Mr. Johnson of Albert Dickinson Co., Mr. Steinmetz of W. W. Barnard, Chicago; Wm. Hagemann, New York; C. J. von Bourgondien and several other bulb and azalea men from the other side.

George A. Parker, superintendent of parks at Hartford, Conn., is seriously ill at St. Francis' hospital, where he was taken a week ago after having been sick two weeks. An operation was performed for the removal of a carbuncle in the back, which left him very weak, but he is now reported as being a little stronger. The number of Mr. Parker's sincere friends is limited only by the number of those who know him, and we know he will have their sympathy and earnest wishes for speedy and full recovery.

10,000 RETINOSPORAS. Golden and Silver Forms

Splendid sheared specimens for lawn planting or for tubs and vases. Smaller sizes for planting in nursery rows and for hedges.

Retinospora plumosa var. aurea. GOLDEN RETINOSPORA

	Price per 10	Price per 100		Price per 10	Price per 100
12-18 in., transplanted once,	\$2.60	\$18.00	4-4½ ft. transplanted thrice-		
18-24 in., " twice,	3.00	25.00	sheared specimens,	\$25.00	\$200.00
24-30 in., " " 6.00		50.00	5-6 ft., transplanted fre-		
30-36 in., " " 9.00		75.00	quently sheared spec-		
3-4 ft., " thrice-			imens,	100.00	\$50.00
sheared specimens,	20.00	180.00			

Retinospora Squarrosa Veitchii. SILVER RETINOSPORA

	Per 10	Per 100		Per 10	Per 100
12-18 in., transplanted once,	\$1.75	\$15.00	2½-3 ft., transplanted thrice		
1-1½ ft., " twice,	3.50	25.00	sheared specimens,	\$10.00	\$90.00
2-2½ ft., " thrice-			3-3½ ft., transplanted thrice		
sheared specimens,	7.50	60.00	sheared specimens,	17.50	150.00

Twenty-five or more plants at the hundred rate. Above prices for dealers only. Mention this paper when writing.

THE WM. H. MOON CO., Morrisville, Pa.

HARDY CHINESE PRIMROSE

(*Primula Cortusoides Sieboldii*)

Not new, but a neglected gem and nothing in this class more deserving the commercial florists' attention. No description would fit it better than a **Hardy Chinese Primrose** that can be forced into flower in a few weeks in a temperature of 50 degrees. (See Bailey). The flowers are about the same size, contain the same shades of color from white to purple-rose and are fringed like the *Primula Sinensis*. It will stand our Northern climate outside and blossoms in late spring. Flowers have good stems and stand out from the robust dark green foliage, making it altogether a most ornamental and useful plant for pots or outdoor cultivation. We can offer plants established in 2½ inch pots in twelve varieties for immediate delivery at \$1.00 per dozen, \$7.50 per 100.

TRY A FEW FOR EASTER

PALISADES NURSERIES, Sparkill, New York

GROWERS OF HARDY PLANTS. ASK FOR TRADE LIST.

Great Bargains

In nursery stock of all kinds.

PRIVET—3 to 4 ft. at \$3.50 per 100, \$30.00 per 1000.
3 to 4 ft., XX heavy 4.00 " 100, 35.00 " 1000.
4 to 5 ft., extra heavy 5.00 " 100, 40.00 " 1000.
5 to 6 ft., 6.00 " 100, 50.00 " 1000.

HYDRANGEAS—2 to 3 ft. at \$7.00 per 100.
3 to 4 ft. at 10.00 per 100.
3 to 4 ft. XXX at \$12.00 per 100.

CARYOPTERIS MASTACANTHUS, field grown, at \$6.00 per 100.

STEPHANANDRA FLEXUOSA,—18 to 24 in. at \$7.00 per 100; 2 to 2½ ft. at \$8.00 per 100.

SPIREA VAN HOUTTEI—3 to 4 ft. at \$8.00 per 100.

VIBURNUM PLICATUM—2 to 3 ft. at \$12.00 per 100; 3 to 4 ft. at \$15.00 per 100.

70,000 AZALEA ATOENA—Special prices on application.

HONEYSUCKLES—2 yr. old, in large quantities at \$0.00 per 1000.

600,000 HERBACEOUS PLANTS.

PINK PÆONIAS in large clumps at \$10.00 per 100.

30,000 CREEPING ROSES at low prices given on application.

THE ELIZABETH NURSERY CO.
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LADY GAY AND HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Pæonies. Hollyhocks and Phlox.

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ROSE SPECIALIST WOODS HOLE, MASS.

ROOTED CUTTINGS OF Kaiserin, President Carnot and La Detroit

Strong, healthy, well-rooted cuttings, ready Dec. 1st; price \$2.50 per hundred or \$20.00 per thousand.

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HINSDALE, ILLS.

John Waterer & Sons, Ld. AMERICAN NURSERY BAGSHOT, ENGLAND

have the finest stock of recognized **Hardy Rhododendrons, Azaleas, Andromedas**, high class Evergreens and specimen Conifers. **Ask for special list of plants grown for the American trade.**

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American Beauty, Clothilde Soupert, Glorie de Dijon, Kaiserin Augusta Victoria, La France, Mad. Caroline Testout, Frau Karl Druschki, Crimson Rambler, Baby Rambler, Dorothy Perkins, etc., etc., **SUITABLE FOR FORCING.**

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General Catalog and Price Lists ready.

BAY STATE NURSERIES,

North Abington, Mass.

GRAFTED ROSES

We offer this year the following assortment: Bride, Bridesmaid, Bon Silene, Etoile de France, Franz Deegan, Golden Gate, Ivory, Gen. McArthur, Kate Moulton, Kaiserin Augusta Victoria, Killarney, La Detroit, Liberty, Mme. Abel Chatenay, Mme. Caroline Testout, Mme. Hoste, Mrs. Pierpont Morgan, Paman Cochet, Marechal Niel, Perle Des Jardins, Papa Gontier, Richmond, Rosalind Orr English, Souv. Du Resident Carnot, Souvenir De Wootton, Tom Field, Uncle John, Wellesley.

The above grafted from 2 1-4 inch pots \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1-2 inch pots, repotted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

AMERICAN BEAUTY

On own roots, from 2 1-2 inch pots, \$8.00 per 100; \$75.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and June delivery.

OUR GUARANTEE GOES WITH EVERY PLANT

A. N. PIERSON, Gromwell, Conn.

GRAFTED ROSES

ON DICKSON'S IRISH MANETTI

We are now booking orders for March delivery.

KAISERIN, BRIDE, BRIDE MAID, KILLARNEY & RICHMOND; \$120 per thousand

Order Now.

ROBERT SCOTT & SON
SHARON HILL, DEL. CO., PA.

TREES and SHRUBS

FINE SPECIMEN CONIFERS

Iron-Clad Hardy Named and Maximum Rhododendrons

IN GAR LOTS A SPECIALTY

Roses, Vines, Fruit Trees, Etc.

.... Send Lists for Quotation

Illustrated Catalogue sent on Receipt of 4 cents Postage

FRED'K W. KELSEY

150 Broadway, - NEW YORK

SPECIMEN NURSERY STOCK

Deciduous Trees and Shrubs, Evergreens, Rhododendrons, Azaleas, over one hundred (100) acres of the choicest varieties.

SEND FOR PRICE LIST

COTTAGE GARDENS CO.
Queens, Long Island, - New York

Beautiful New Pink Rose

AUORA

See announcement and full description in "Horticulture," December 8 issue.

PAUL NIEHOFF, - Leighton, Penn.

Seed Trade

The business of G. W. Rogers who died recently in Yokohama, Japan, is offered for sale.

Joseph Milton, formerly with the Wm. Donnellson Co., of Minneapolis, has taken a position with the Iowa Seed Co., Des Moines, Ia.

It is asserted by good judges of the situation that the proposed seed inspection legislation has no chance of becoming a law this year.

Cratz Bros. dealers in clover seed, 118-120 Ontario street, Toledo, O., have suspended business. The sudden decline in clover seed and the irregularity of the market for some time are given as reasons. This firm has been in business since 1885 and since the death of Henry Cratz, two years ago, William E. Cratz has been at the head of the company.

The Nebraska Seed Co., Omaha, Neb., has entered suit against A. Rousset, of Paris, France, to recover \$3500, on a contract for seed which when delivered, they claim, proved to be of inferior quality to that ordered and paid for. They ask for a writ of attachment upon certain assets of M. Rousset, said to be in the hands of the Adams Express Co.

It has been announced that The Hill & Ross Co., dealers in seeds and farm implements, and The Hayes Music Co. have been merged into The Hayes Co., of Toledo, with a capital of \$80,000. The incorporators of the new company are J. M. Hayes, P. C. Hayes, A. L. Irish, J. P. McAfee, and S. S. McAfee. The Hill & Ross Co. has been in business for some time and had a capital of \$30,000, The Hayes Music Co. had a capital of \$9,000 and a surplus of \$40,000. The present stores of the companies will be abandoned and The Hayes Co. will locate in Cherry street. J. M. Hayes will be president and general manager of the new company. The Hill & Ross Co. was located in Superior street a very fine location for the retail trade.

STATEMENT OF PLANT IMPORTS.

There were entered at the port of New York during the three weeks from January 28 to February 18, 1907, the following plants, etc.:

From Holland—H. F. Darrow, 9 cs. plants; J. Dunn, 4 cs. flower roots; O. G. Hempstead & Son, 2 cs. plants; Peter Henderson & Co., 1 cs. bulbs; C. B. Richard & Co., 5 cs. roots; J. M. Thorburn & Co., 8 bales flower seed; Vaughan's Seed Store, 2 bales garden seed; Sundry Forwarders, 9 bales flower seed, 9 cs. roots.

From Belgium—Sundry Forwarders, 2 cs. plants, 4 cs. trees, 11 bags seed.

From France—C. C. Abel & Co., 18 cs. plants; August Rolker & Sons, 30 cs. do.; Sundry Forwarders, 137 cs. do., 1 cs. seed.

From Germany—H. F. Darrow, 1 cask seed; Peter Henderson & Co., 2

HERE'S A BARGAIN FOR DECORATION DAY Columbia Farm Longiflorum Bulbs

From Cold Storage, 5-7, 400 to the case, \$8.00 per case

ARTHUR T. BODDINGTON, 342 West 14th St., New York

bales seed; J. M. Thorburn & Co., 50 cs. lily of the valley pips, 15 bags seed; Vaughan's Seed Store, 11 pkgs. seed; Sundry Forwarders, 2 cs. trees, 6 cs. flower seed.

Via Liverpool—H. F. Darrow, 5 cs. trees; Vaughan's Seed Store, 3 cs. plants.

Via Southampton—C. C. Abel & Co., 28c. plants; H. F. Darrow, 9 cs. trees, 27 bags seed; Peter Henderson & Co., 8 bags seed; McHutchison & Co., 8 cs. trees.

W. W. Rawson & Co. are offering this year the new H. P. rose, Charlotte Klemm, a fiery crimson seedling from Abel Carriere x Cramoise.

ASTER SEED

This should be sown now to insure good stocky plants. The seed we offer has been gathered from specimen very double blooms. We offer two good ones for the florist.

TRUFFAUT'S PEONY FLOWERED ASTER

	Trade Pkt.	Oz.
Crimson	\$0.30	\$1.50
Light Blue .....	.30	1.50
Pink .....	.30	1.50
Purple Violet .....	.30	1.50
White .....	.30	1.50
Mixed .....	.30	1.25

SEMPLER'S BRANCHING ASTER

	Trade Pkt.	Oz.
Lavender	\$0.30	\$1.00
Rose Pink .....	.30	1.00
Shell Pink .....	.30	1.00
Purple .....	.30	1.00
Red .....	.30	1.00
White .....	.30	1.00
Mixed .....	.30	1.00

Our Wholesale Catalogue for florists contains a complete list of asters Send for a copy.

HENRY F. MICHELL CO.

1018 MARKET ST.,

PHILA.

JUST RECEIVED

Asparagus Plumosus Nanus
Seed of the Highest Germinative Power

(Northern Greenhouse Grown)

Per 100 seeds, 50c; Per 1000 seeds, \$3.50.
Per 5000 seeds, \$16.00

Asparagus Sprengerii, Per 250 seeds, 25c; Per 1000 seeds, 75c; Per 5000 seeds, \$3.00

Highest Quality Flower Seeds

Write for Florists' Wholesale List.

Johnson Seed Co.

217 Market St., - Philadelphia, Pa.

Herbert W. Johnson, of the late firm of Johnson & Stokes, President



NOTHING LIKE IT

FOR BORDER PURPOSES

BEGONIA VERNON

Mkd. Trade Pkt., 25c
Oz. \$2.00

Asters Queen of the market, mixed . . . per oz. 50c
Asparagus Plumosus Nanus . . . 1000 seeds \$4.50
Sprengerii . . . 1000 seeds 75c
Bellis Perennis, double . . . trade pkt 25c
Candytuft Empress . . . per oz. 20c
Centaurea Gymnocarpa . . . per oz. 35c
Golden Feather, dwarf selected . . . per oz. 40c
Lobelia, Crystal Palace Campacta, true, trade pkt. 25c.

Petunia Grandiflora, extra choice single mixed, trade pkt., \$1.00.

Petunia Grandiflora, superb fringed mixed, trade pkt. \$1.00.

Phlox, choice mixed . . . per oz. 40c
Dwarf . . . per oz. \$1.25

Salvia Bonfire . . . per oz. \$2.50

Stocks, Ten Week, dwarf, large flowering, mixed trade pkt 25c.

Verbena Mammoth white . . . trade pkt. 15c

scarlet . . . trade pkt. 10c

STERILIZED SHEEP MANURE

Grand Natural Stimulant for Vegetation
100 lb. \$1.25; half tons \$11; tons \$20

WM. ELLIOTT & SONS

201 FULTON ST., NEW YORK

Thorburn's Seeds

... OUR ...

Wholesale Catalogue

for florists and market gardeners is now ready and will be sent free to all who ask for it.

NEW CROP flower seeds are mostly all on hand now and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

Cold Storage Lily of the Valley Pips. Best possible grade. 1000 in case @ \$12.00 per 1000.

J. M. THORBURN & CO.

33 Barclay St., through to 38 Park Place
NEW YORK

PURE UNLEACHED HARDWOOD ASHES

Nature's plant food. The best fertilizer to build up the land. You get the best in the Joynt brand.

Write for prices to

JOHN JOYNT, Lucknow, Ontario, Canada.

"HORICUM" KILLS SAN JOSE SCALE
Sold by the seed dealers
For fine pamphlet, write to

HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.

The Five Superb SWEET PEA NOVELTIES

... OF THE SEASON ARE ...

"Nora Unwin"

The most magnificent White yet introduced, far outdistancing Dorothy Eckford.

"Frank Dolby"

An enormous flowered Lady Grisel Hamilton.

"E. J. Castle"

Rich Carmine Rose, Salmon Shading.

"A. J. Cook"

Fine violet-mauve self, resembling Mrs. Walter Wright in color.

"Mrs. Alfred Watkins"

A superb Pink, somewhat like the old Princess Beatrice in color.

The Giant Flowered Offspring of "GLADYS UNWIN"

Each per packet, 25 cents.

To be obtained of all American Seedsmen.

WHOLESALE OF

WATKINS & SIMPSON, 12, Tavistock Street, Covent Garden, W. C., LONDON, ENGLAND

The largest wholesale growers of Flower Seed and Special Stocks of Vegetable Seed in the British Empire.

GLADIOLI

Beautifully illustrated catalog, colored plate, etc., describing Groff's Hybrids, Named Novelties of rare beauty, Mixtures and Collections to color and fine Mixtures of all colors. Write for it.

ARTHUR COWEE

Gladiolus Specialist
MEADOWVALE FARM, BERLIN, N. Y.

W. & D. SPECIALTIES for FORCING

Mignonette, "New York Market," Sweet Peas, "True," Christmas Flowering, (pink and white) Tomato, "The Don," "Stirling Castle," Mushroom Spawn, "English" and "Pure Culture." Send for 1907 Catalogue.

Weeber & Don, Seed Merchants & Growers
114 Chambers St., New York

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY & CO.

32 & 33 So. Market St., BOSTON

BRIDGEMAN'S SEED WAREHOUSE

RICKARDS BROS.

Props.

37 East 19th St., NEW YORK CITY

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

BRECK'S HIGH GRADE FLOWER AND VEGETABLE SEED

FRESH STOCKS for the Florist, Market Gardener and Farmer. Catalogues on application
Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS

Comet Tomato

Those who force tomatoes should give "Comet" a trial. This variety has been the talk of gardeners around Boston the past season. Those who have seen it growing declare there's nothing to compare with it.

Seed, \$5.00 per oz. Trade packet \$1.00.

WILLIAM SIM, Cliftondale, Mass.

RAWSON'S HIGH GRADE SEEDS

for the most critical
GARDENER, FARMER
or FLORIST

Catalogues mailed free

W. W. RAWSON & CO.
5 Union St., BOSTON, MASS.



CAULIFLOWER SEED CABBAGE

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a large supply of exceptionally fine quality.

For the Lawn,
The Greenhouse,
For the Herbaceous Garden,
For the Flower Garden,
For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,
6 and 7 So. Market St., BOSTON.

NEW STOCKS FLOWER SEEDS for FLOPISTS

Wholesale Catalogue Ready. Send for it today. But first read our advertisement on page 105 in the Horticulture for January 26th, 1907. It is worth reading.

James Vick's Sons,
Seedsmen, Rochester, N. Y.

PETER FISHER (Originator)
Ellis, Mass.

342 W. 14th St., New York
In writing advertisers, mention **Horticulture**

Handsome Than Ever Before!!

I have the finest lot of trained **Easter Ramblers** in the country and am now booking orders for their delivery at proper time. **Crimson Ramblers** in bush form, \$2 to \$3 each. **Baskets**, \$2.50 to \$12. **Chairs** \$8 to \$12. **Crowns**, \$5 to \$15. **Crosses**, **Pyramids**, **Umbrella**, **Automobile**, **Bicycle**, etc. at corresponding prices. **Dorothy Perkins Ramblers** in similar styles; also **Lady Gay Ramblers**, \$3 to \$5 each. **Baby Ramblers**, \$6 to \$9 per doz.

AZALEAS, ERICAS

On these specialties I have no superior. **Azaleas** are superb this year and the proportion of the popular but scarce pyramidal form is large. Quotations by dozen or hundred lots. We have the **Firefly** and **Chas. Enke** in quantity. **Ericas**, **Persoluta Alba**, **Cupressina**, **Cavendishii** and **Trans u censis**, are splendid and every up-to-date florist should have them. **Hydrangeas**, **Oranges**, **Tulips**, **Genistas**, **Boronia**s, **Gardenias**, **Cyclamens**, **Daisies** and a host of other desirable things. Write for prices.

Anton Schultheis, College Point, New York

Azaleas for Easter

From 50c. to \$5 in all colors

Also a fine lot of **Palms** in all sizes, such as **Kentias**, **Arecas**, **Latanias**, **Phoenix** and **Cocos**. **Pandanus Veitchii** and **utilis**, **Crotons**, **Dracaenas**, **Neperthes**, **Aralias**, **Araucarias**, **Aspidistras**, **Ferns** suitable for dshes. in lead ng varieties. **Cibotium Schiedel** from \$1.00 to \$3.00 each.

Wholesale Price List on application.

A. LEUTHY & CO.,

Importers and Exporters, Growers and Dealers,
Perkins St. Nurseries, Roslindale,
BOSTON, MASS.

ARAUCARIA COMPACTA ROBUSTA, have only fine plants: 6 to 7 in. pots, 20 to 30 in. high, 4 to 5 years old, 3, 4, 5 tiers, \$1.50, \$1.75, \$1.00 each.

A. EXCELSA GLAUCA, 6 in., \$1.00, \$1.25; 7 in. specimens, finest in the world, \$2, \$2.50, \$3 each.

KENTIA FORSTERIANA, 6 in., 25 to 40 in. high, 75c, \$1, \$1.25 each; 7 in., made up, \$1.75, \$2 each.

SCOTTII FERNS, 8 in., as big as a washtub, \$1.25, \$1.50, worth \$3; 5½ in., 40c; 6 in., 50c.

BOSTON FERNS, 6 in., 50c.

Cash with order. Goods travel at purchaser's risk.

GODFREY ASCHMANN,

Wholesale Grower and Importer of Pot Plants
1012 Ontario St., PHILADELPHIA PA.

WHITMANI

2 1-4 inch, \$10 per 100

BOSTONS

2 1-4 inch, \$3.00 per 100

H. H. BARROWS & SON Whitman, Mass.

Nephrolepis Whitmanii, strong plants from 2½ in. pots, \$10.00 per hundred.

Nephrolepis Elegantissima, 2½ in. pots, \$5.00 per hundred.

P. R. QUINLAN,
SYRACUSE, N. Y.

GOVERNOR HERRICK THE NEW VIOLET

Originated and introduced by
H. R. CARLTON, Willoughby, O.
We have the following stock in the finest condition to plant and now is the time to plant:

3½ inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000
4 " " 2.50 " " 12 " " 100 " 75 " 1000

It will pay you. Try it. Order at once.

JAPANESE
THE YOKOHAMA NURSERY CO.
31 BARCLAY STR. NEW YORK.
LILIES
PLANTS
BAMBOO STAKES

AZALEAS FOR EASTER

Now is the time to get Azaleas. Our plants are shapely and well budded. We offer the following varieties:

Mme. Van der Cruyssen, **Deutsche Perle**, **Mme. C. Van Langenhove**, **Vervaeana**, **Empress of India**, **Bernhard Ardra Alba**, **Heien Thielman**, and **Simon Mardner**. A fair proportion only of **Mme. Van der Cruyssen** and white sorts supplied with each order.

Prices, (f.o.b. New York): 10 to 12 inch heads, \$6.00 per doz., \$45.00 per 100; 12 to 14 inch heads, \$7.00 per doz., \$55.00 per 100; 14 to 16 inch heads, \$10.00 per doz., \$75.00 per 100.

PETER HENDERSON & CO., 35-37 Cortlandt St., New York

**FINEST BULBS, NURSERY STOCK, PALMS
AZALEAS, BAYS, ROSES, BUXUS, EVER-
GREENS, and LILY OF THE VALLEY
"EXCELLENTA" and "SUPERIOR."
JOHN SCHEEPERS & CO., New York City**

Rose Hill Nurseries

The Oldest and Largest Orchid Establishment in America. The Largest Collection of Palms, Ferns, Stove and Greenhouse Plants.

VISIT OUR NURSERIES

Send Us Your List for Prices and Particulars.

SIEBRECHT & SON, New Rochelle, New York

—ORCHIDS—

Some of the varieties we shall import this spring:
Cattleyas, **Trianae**, **Labiate**, **Mossiae**, **Medellin**, **Speciosissima**, **Gigas**, **Schroederæ**, **Dendrobium Noile**, **Wardianum**, **Phalaenopsis**, **Vandas**, **Cochila**, **Kimballiana**, **Oncidium Varicosum**, **Laelias**, **Anceps**, **Autumnalis**, **Albida**. Write for prices on above.

CARRILLO & BALDWIN, SECAUCUS, N. J.

ORCHIDS

Save money and get our quotations on **Cattleya labiate**, **Trianae**, **Percivaliana**, **Mossiae**, **Medellin**, **Schroederæ**.

JULIUS ROEHRS CO.

Largest Orchid growers and importers in U. S.
RUTHERFORD, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World
Sander, St. Albans, England
and 235 Broadway, Room 1
NEW YORK CITY

ORCHIDS

Arrived in exceptionally fine condition the following
ORCHIDS: LAELIA PURPURATA, CATTLEYA HARRISONIAE, C. INTERMEDIA, C. TRIANA, C. LEOPOLDII and many more.

Write for Prices

LAGER & HURRELL, SUMMIT, N. J.

ORCHIDS

Direct from the Collectors
For Spring and Summer Delivery
We are giving quotations upon our entire list of South American, Philippine and East Indian Orchids. Choice varieties of **Cattleyas**, **Odontoglossums**, **Pilumnas**, **Cypripedium**, **Phalaenopsis**, **Dendrobium** and **Vandas**. Among them the very rare **Vanda Sanderiana** for delivery June or July.
A. HELD, 11-19 William St., New York

Asparagus Robustus

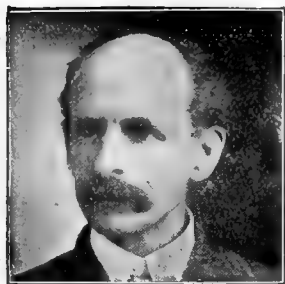
The best of all Asparagus for a pot plant, strong three inch stock at

\$6.00 per 100, \$50.00 per 1000

ALBERT M. HERR, Lancaster, Pa.

TO BUYERS

Patronize our advertisers, they will treat you right



CALDWELL THE WOODSMAN,
Introducer of the Wild Smilax.

Wild Smilax, \$2.50 per case.

THE ONLY PLACE WHERE YOU CAN ALWAYS GET IT.

Long Needle Pines, \$1.00 per dozen. Palm Crowns, \$2.50 per dozen. Extra nice long-stemmed Palm Leaves, \$2.50 per 100. Magnolia, \$2.50 per case, 16 cubic feet. Sheet Moss, \$2.00 per sack. Grey Moss, \$2.00 per sack. Galax, \$1.00 per 1000.

Speed a Specialty.

Write for Catalogue.

Caldwell the Woodsman Decorating Co., Inc., EVERGREEN, ALA.

ROSES

VIOLETS

GARDENIAS

CARNATIONS

VALLEY

AND ALL OTHER CHOICE FLOWERS

In our **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition to our regular wholesale **EVERGREENS** and **FLORISTS' SUPPLIES**

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. **Boston, Mass.**
and 9 Chapman Place,

See our Greens Advertisement on page 241.

L. D. Telephone, Main 2618.

NEWS NOTES.

The Cottage Gardens, Queens, N. Y., have the contract for planting Bliss Park, Saginaw, Mich.

Fred Gall, a florist from Snohomish, was run down by a street car in Seattle, Wash., and was badly bruised.

John Clark of Cohasset has relinquished his lease of the Nelson Greenhouses at Marshfield, Mass., and the place is closed.

The Jefferson Fruit & Floral Co. has opened on East Lincoln Ave., Goshen, Ind., under the management of A. J. Santschi.

The park commissioners of Oklahoma City, Okla., will appropriate \$2000 for a greenhouse and equipments at Wheeler Park.

The report of Stanley D. Rood, superintendent of the School of Horticulture, Hartford, Conn., shows a growing interest in the work, and broadening of opportunities.

A Bill is before the Legislature of Oregon providing for the appropriation of \$5,000 for the importation of birds that are considered destructive to the various insect pests of the orchards.

George Wainwright, for fifty years a well-known florist and nurseryman of Trenton, N. J., is to retire from business; his greenhouses will be demolished and the land converted into building lots.

A default has been declared in the Central District Court at Worcester, Mass., against Miss Gertrude Lamson, known on the stage as Nance O'Neil, in the suit of C. R. Fish of Worcester, for payment for plants and flowers amounting to nearly \$250.

A boiler at the greenhouse of Theodore Dellert, Great Barrington, Mass.,

blew up on February 12. Owing to the small amount of pressure no great damage was done, and the prompt use of oil stoves saved the contents of the greenhouses from serious injury by cold.

Begonia Gloire de Lorraine has been setting seed in several different places this season, and growers are jubilant over the fact, for seedling plants are much more vigorous than those from cuttings, as has been proven in England, and this means a revivifying of the stock in this country.

The Lord & Burnham galvanized eave plate, which has been advertised in **HORTICULTURE**, has evidently found many very appreciative friends among greenhouse men. Robert Crawford, Jr., of Philadelphia, is one of them and is especially enthusiastic over the way in which it cares for the drip and prevents rotting of the wood work.

Charles Henlock, superintendent of Propagating Gardens, Washington, D. C., is conducting an experiment with virgin mushroom spawn, which points not only to his success, but to the subsequent dissemination of valuable information to the trade. The point at issue is to lessen the labor and complications attendant upon this industry, and thus increase the profits.

BUSINESS EMBARRASMENTS.

The Shady Hill Nursery Company, a corporation capitalized for \$100,000, which was organized in 1892 and which has operated large nurseries at Bedford, Mass., made an assignment for the benefit of creditors. The assignees are Heber B. Clewley, who for about a year has been manager of the nurseries, and Joseph Sargent, Jr., of 50 Congress street, Boston, an attorney. Until about a year ago E. L. Beard was manager of the corporation. The offices are at 155 Milk street.

AN OLD-TIME FLORIST.

William Christie, formerly gardener to Mrs. Mary J. Goddard of Newton, Mass., and later in the retail florists' business at Woodlawn, has offered his place for sale.

Mr. Christie belongs to the class of "old country" men who, like the subject of Mr. Anderson's article in last week's issue of this paper, constitute such an essential element in the development of horticulture in New England. A life member of the Massachusetts Horticultural Society, a constant exhibitor in the old days, his memory a perfect storehouse of reminiscences of people, events and incidents connected with this branch of activity, show how closely his life has been interwoven with the culture of trees, plants and flowers.

Mr. Christie has had a successful business at Woodlawn but desires to pass the remainder of his days in a small place, not far from Boston, where a few sashes, some poultry and a garden are the only care.

G. H. HIGGINS.

OBITUARY.

Mrs. Kurtzwell, mother of Mathias Kurtzwell, one of the proprietors of the Iowa Seed Co., has just passed away at the age of 78. She leaves a husband and one son.

Among the victims of the Larchmont were the wife of George A. Jansen, proprietor of the Park Greenhouses, South Providence, R. I., and their daughter, Mrs. H. V. De Thestrup. Mr. De Thestrup was recently appointed head gardener at the agricultural experiment station at Burlington, Vt.

SOUTHERN WILD SMILAX

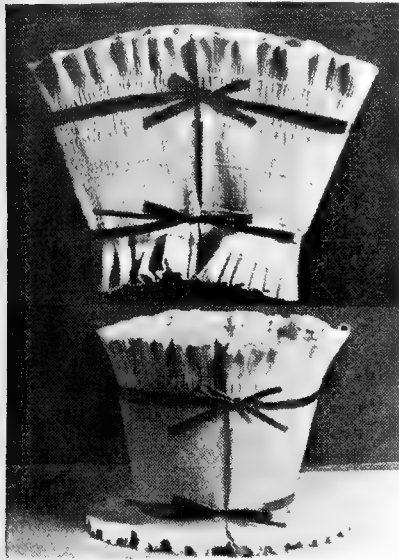
We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for Samples.

E. A. BEAVEN, Evergreen, Ala.

Ever Ready Flower Pot Cover

A novel and handy pot cover called the "Ever Ready." It is made of cardboard to fit any size flower pot, and is covered with Waterproof crepe paper, tied with silk ribbon at top and bottom. Can be had in six colors: Green, white, pink, red, blue and yellow.

SHOWING IT IN FLAT



AND NATURAL SHAPE

Send 15 cents in stamps and we will mail you sample cover. Also our new price list and circular.

EVER READY FLOWER POT COVER COMPANY

309 Mortimer St., - Buffalo, N. Y.

HAVE YOU A SURPLUS
of any kind of stock? Make it a
surplus
OF CASH
by advertising it in HORTICULTURE.

William H. Donohoe
FLORAL DECORATOR

Special Attention to Theatre and Steamer Orders
and reliable deliveries guaranteed

2 West 29th Street, New York
Tel. 3034 and 3035 Madison Sq.

Send orders for flowers for delivery
in

**BOSTON and all NEW
ENGLAND POINTS to**

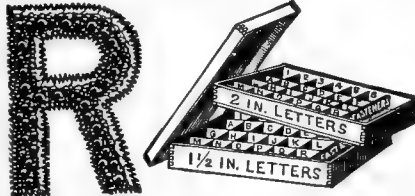
THOS. F. CALVIN
124 Tremont St., Boston

The Park Floral Co.

J. A. VALENTINE
Pres.

DENVER, COLORADO

BOSTON FLORIST LETTER CO.
Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

**JOHN BREITMEYER'S
SONS**

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada

P. J. HAUSWIRTH

Temporarily Located
at

**13 Congress Street
CHICAGO**

AUDITORIUM ANNEX Tel. Harrison 585

**SAMUEL MURRAY
Florist**

Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO
Both 'Phones 2670 Main

**FRED C. WEBER
FLORIST**

4326-28 OLIVE STREET ST. LOUIS, MO.
Established 1873
Long Distance Phone Bell Lindell 676

**WILLIAM L. ROCK
Flower Co.**

KANSAS CITY, - MO.
will carefully execute orders for Kansas City
and any town in Missouri or Kansas.

You'll find something worth reading
on every page of this paper.

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

571 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

YOUNG & NUGENT

42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"



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WHITE VIOLETS \$1.50 per 100**LILIES** \$15.00 per 100**GARDENIAS** \$4.00 per dozen
\$25.00 per 100**S. S. PENNOCK-MEEHAN CO.**

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AMERICAN BEAUTY

and all other Roses

**LILY OF THE VALLEY
CARNATIONS****WELCH BROS.**

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CUT FLOWER BOXES**EDWARDS FOLDING BOX CO**MANUFACTURERS
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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		ST. LOUIS		PHILA.		BOSTON	
	February 17				February 18		February 21	
ROSES								
Am. Beauty, Fan. & Sp.	35.00	to 40.00	.....	to	60.00	to 75.00	30.00	to 75.00
" Extra.....	25.00	to 30.00	.....	to	40.00	to 60.00	25.00	to 30.00
" No. 1.....	15.00	to 20.00	.....	to	25.00	to 40.00	20.00	to 25.00
" Lower grades.....	6.00	to 10.00	.....	to	8.00	to 15.00	8.00	to 16.00
Bride, 'Maid, Golden Gate, F. & S.	8.00	to 12.00	.....	to	12.00	to 15.00	12.00	to 16.00
" " " " No. 1 & Ex.	6.00	to 8.00	.....	to	8.00	to 10.00	8.00	to 10.00
" " " " low grades.....	4.00	to 6.00	.....	to	5.00	to 6.00	4.00	to 6.00
Liberty, Richmond, Fan. & Sp.	10.00	to 12.00	.....	to	25.00	to 40.00	10.00	to 35.00
" Lower grades.....	6.00	to 8.00	.....	to	10.00	to 18.00	6.00	to 12.00
Chatenay, Morgan, Fan. & Sp.	10.00	to 12.00	.....	to	15.00	to 20.00	12.00	to 15.00
" Lower grades.....	6.00	to 8.00	.....	to	5.00	to 10.00	6.00	to 8.00
Killarney, Wellesley, Fan. & Sp.	10.00	to 12.00	.....	to	15.00	to 18.00	12.00	to 15.00
" Lower grades.....	6.00	to 8.00	.....	to	8.00	to 10.00	6.00	to 8.00
CARNATIONS								
Fancy.....	4.00	to 5.00	.....	to	4.00	to 6.00	3.00	to 4.00
Ordinary.....	1.50	to 3.00	.....	to	2.00	to 3.00	2.00	to 3.00
MISCELLANEOUS								
Violets, Double.....	.....	to .75	.....	to .....	.75	to 1.00	.50	to .75
" Single.....	.50	to .75	.....	to .....	.50	to .75	.50	to .75
Paper White Nar., Roman Hy.	3.00	to .....	.....	to	2.00	to 4.00	1.50	to 2.00
Tulips, Daffodils.....	3.00	to 4.00	.....	to	2.00	to 4.00	1.50	to 2.00
Cattleyas.....	40.00	to 50.00	.....	to	50.00	to 60.00	35.00	to 50.00
Lilies, Callas.....	10.00	to 15.00	.....	to	10.00	to 15.00	10.00	to 12.00
Freesia.....	2.00	to 4.00	.....	to	1.00	to 4.00	1.00	to 2.00
Gardenias.....	40.00	to 50.00	.....	to	25.00	to .....	.....	to 50.00
Lily of the Valley.....	3.00	to 4.00	.....	to	2.00	to 4.00	2.00	to 4.00
Mignonette.....	4.00	to 8.00	.....	to	2.00	to 6.00	1.00	to 2.00
Adiantum.....	1.00	to 1.50	.....	to	1.00	to 1.50	1.00	to 1.50
Smilax.....	12.00	to 15.00	.....	to	12.00	to 20.00	12.00	to 16.00
Asparagus Plumosus, strings.....	25.00	to 50.00	to	50.00	to	to 50.00
" " & Sprenger bunches.....	25.00	to 50.00	to	35.00	to 50.00	35.00	to 50.00

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It is not the cheapest but the best ever offered to the florist trade. Splendid Easter Baskets and Jardinieres are now in stock. Send for latest illustrated catalogue.

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CUT FLOWER MARKET REPORTS

BOSTON The spring slump is on the way and is due any day seemingly. Roses still hold on the moderate side as to quantity and are safe up to date but most other items on the list are very weak and there is a big decrease in prices. For the past two or three days the demand has fallen off; accumulations are in evidence on bulbous stock especially.

BUFFALO Favorable weather continued the past two weeks for the cut flower and plant trade and business was exceptionally good, but rather short supply in some lines inconvenienced the retailer as well as the wholesaler. Now as the Lenten season has begun it will be much easier to fill orders as the supply of stock on many lines has doubled, and is anxiously awaiting the buyers and at somewhat lower prices. White stock, especially carnations, has been the most in demand. Floral work being the main feature has kept the wholesaler cleaned up on narcissus, lily of the valley, tulips, lilies, etc., these being substitutes for roses which have been scarce, especially the shorter grades. Beauties were in fair demand but not too many were had, prices holding firm since the holidays. Enchantress, Red Lawson, Victory and White Lawson fair in quality and quantity. Violets were much in demand for St. Valentine's Day. Home-grown were best in demand; eastern stock not up to the standard. Bulbous stock, especially daffodils, is entering the market in heavy supply. At the time of mailing this report a genuine March day is witnessed with plenty of rain and snow.

COLUMBUS The trade are feeling much happier than for a long time. At last we are having some sunny days, and in consequence roses and carnations are again increasing in quantity and greatly improving in quality. But prices still remain high, as we have had such a dearth of flowers for the past two months that it will take time for things to assume a normal basis. It has taken the most consummate tact to make the daily stocks fill the orders, and had it not been for an unusual amount of bulb stock, a large part of them could not possibly have been filled. St. Valentine's Day brought a lot of orders, the craft

agreeing that the largest business ever done was accomplished this year.

INDIANAPOLIS The retailers had no cause to complain the past week, as all sold out clean at good prices. Roses are slowly recovering from the scarcity which has prevailed. Good carnations are to be had in abundance, although some could stand a little improvement in strength of stem. Daffodils and other bulb stock are more abundant and sell a trifle lower, the demand being good. Sweet peas find ready sale at good prices.

Trade in flowering plants is unusually good, many people turning to these in preference to cut flowers. Violets have had a good call, particularly for St. Valentine's day, the trade being a little ahead of former years. Asparagus Sprengeri and maiden-hair continue to be scarce, while common ferns and other greens are in ample supply.

NEW YORK The market depression noted last week has continued with increasing intensity, and the predicted inundation of material with slaughter prices is now a reality. Promptly with the coming in of Lent the break-up began, since which time the street dealers and speculators have been coming out from their late seclusion and the clamor of dickering and bargaining as of yore is heard throughout the wholesale markets, while the regular buyers gaze on with ill-concealed disapproval as they mentally compare the prices eagerly paid a few days ago with the values freely offered today. Still the American Beauty is refractory, however, and perfect specimens are practically out of the question. It is a long time since this rose was so universally crippled as it has been this season. Bulbous material is an avalanche at present, and carnations are almost in the same condition.

PHILADELPHIA Trading the past week, especially in connection with the St. Valentine occasion, was away behind expectations. But the reaction has set in and the prospects now are quite bright. St. Valentine has no business to find himself stranded on the second day in Lent. American Beauty roses are so scarce that it is almost impossible to quote prices. Richmond, Liberty and the teas are more plentiful, with prices

easier. The same may be said of carnations, violets and sweet peas. The lily of the valley market is fairly healthy, but supplies are so plentiful that prices are slightly weak for the time being. Cattleyas are coming in handsomely, and find ready takers. Cyrtipediums are on their last legs, but spray orchids are filling the gap. Easter and calla lilies, tulips and other bulbous stock are in increased supply and slightly ahead of market requirements. Gardenias are choice and in good supply.

WASHINGTON Notwithstanding the heavy snow and cold wave that has so persistently lingered around Washington during the past fortnight, trade has been brisk. The social functions create good demand and both quality and prices are satisfactory. Bulb flowers are becoming more abundant each week, though so far they have not in any way displaced the carnation, which is a favorite here among all classes. The increased percentage of sunshine has strengthened all plant life, and quality with carnations especially, has about reached a maximum, though quantity is lacking. All growers have complained of "short cuts" as a result of the wet season; in many instances it has been difficult to clear expenses, and brighter prospects are welcomed by all.

Des Moines, Ia., reports that there has been a steady demand for flowers and plants, and despite the cloudy weather the supply has been all-sufficient.

THE LANDSCAPE WORK AT THE JAMESTOWN EXPOSITION.

Mr. Charles H. Pratt, superintendent and engineer in charge for Board of Design, at the Jamestown Exposition, calls our attention to an inaccuracy in Mr. Thomas H. Brown's communication concerning the work at the exposition grounds, which appeared in our issue of February 2. Mr. Pratt states that Mr. J. T. Withers, while doing some work on the grounds for private parties is in no way connected with the Exposition as an official, Mr. Manning being in full charge of the landscape work.

Mrs. Amelia Miller has purchased the interest of E. L. Pope in the Allison-Pope Floral Co., of Davenport, Ia.

JOHN YOUNG**WHOLESALE FLORIST**Finest American Beauties and
Carnations

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FINE ROSES FANCY CARNATIONS

A Full Line of All CUT FLOWERS

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Prompt payments. Give us a trial.**WHOLESALE
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NEW YORKTELEPHONE 167
MADISON SQ.

All Grades of Flowers for All Grades of Buyers

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Feb. 16 1907	First Half of Week beginning Feb. 18 1907		Last Half of Week ending Feb. 16 1907	First Half of Week beginning Feb. 18 1907
Roses			Carnations, Ordinary	1.50 to 2.00	1.00 to 2.00
Am. Beauty, fan and sp.	50.00 to 75.00	40.00 to 75.00	Violets, double .....	.50 to .75	.40 to .75
" extra	25.00 to 40.00	20.00 to 25.00	" single .....	.30 to .60	.30 to .60
" No. 1	15.00 to 20.00	15.00 to 20.00	Paper White Nar., Roman Hy.	2.00 to 2.00	1.00 to 3.00
" Lower grades	3.00 to 8.00	2.00 to 8.00	Tulips, Daffodils	2.00 to 5.00	1.00 to 4.00
Bride, 'Maid, Golden Gate, fan & sp	10.00 to 15.00	10.00 to 15.00	Cattleyas	25.00 to 40.00	20.00 to 40.00
" " " " " No. 1 & Ex.	5.00 to 8.00	5.00 to 8.00	Lilies, Callas	10.00 to 15.00	10.00 to 12.00
" " " " " low grades	3.00 to 4.00	2.00 to 4.00	Freezia	1.00 to 3.00	1.00 to 2.00
Liberty, Richmond, fancy & special	15.00 to 35.00	15.00 to 30.00	Gardenias	2.00 to 25.00	20.00 to 30.00
" " " " " lower grades ..	3.00 to 10.00	3.00 to 10.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Chatenay, Morgan, fancy and spec.	8.00 to 12.00	10.00 to 15.00	Nigronette	3.00 to 12.00	2.00 to 12.00
" " " " " lower grades ..	3.00 to 5.00	2.00 to 6.00	Adiantum .....	.50 to 1.00	.75 to 1.25
Killarney, Wellesley, fan. and spec.	8.00 to 12.00	10.00 to 15.00	Smilax	12.00 to 16.00	12.00 to 20.00
" " " " " lower grades ..	3.00 to 5.00	2.00 to 6.00	Asparagus Plumosus, strings	25.00 to 35.00	20.00 to 30.00
Carnations, Fancy	3.00 to 6.00	3.00 to 6.00	" " & Sprenger, bunches	15.00 to 25.00	15.00 to 25.00

ORCHIDS AT ALL SEASONS**WM. STUART ALLEN CO.**

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LEUCOTHOE SPRAYS, \$1.00 per 100, \$7.50 per 1000

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New crop; fresh from the patch, prices as follows:

Bronze and Green Galax Leaves \$0.50 per 1000

Fancy and Dagger Ferns 1.00 per 1000

Green Leucothoe Sprays 2.50 per 1000

Bronze " 5.00 per 1000

Rhododendron Sprays 3.00 per 1000

Katmia or Mountain Laurel 3.00 per 1000

Also Rhododendron Plants which will grow,

10 to 15 inches, 10c. each; 20 to 25 inches, 15c.;

30 to 40 inches, 25c.; 50 to 60 inches, 40c. Dis-

counts on large orders. Fourteen years' ex-

perience enables me to guarantee perfect

satisfaction. 250 customers now in U.S. Send

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Wholesale Commission Florist, also Dealer in
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NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000.

Case of 10,000, \$7.50.

Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

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\$1.50 per 1000.

Best Southern Smilax, \$3.50 and \$7 per case.

Headquarters for all FLORISTS' SUPPLIES. Wire Designs,

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WHOLESALE FLOWER MARKETS.—PER 100. TO DEALERS ONLY.

	CINCINNATI February 18	DETROIT February 18	BUFFALO February 18	PITTSBURG February 18
ROSES				
Am. Beauty, Fan, and Sp.	40.00 to 50.00	35.00 to 50.00	25.00 to 35.00	25.00 to 30.00
Extra	30.00 to 40.00	20.00 to 30.00	20.00 to 25.00	8.00 to 12.50
No. 1	10.00 to 20.00	10.00 to 15.00	5.00 to 10.00	5.00 to 10.00
Lower grades	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
Bride, 'Maid, Golden Gate, F. & S.	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
No. 1 & Ex.	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
low grades	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Liberty, Richmond, Fan, & Sp.	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
Lower grades	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Chatenay, Morgan, Fan, & Sp.	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
Lower grades	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Killarney, Wellesley, Fan, & Sp.	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
Lower grades	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
CARNATIONS				
Fancy and Novelties	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00
Ordinary	1.50 to 2.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
MISCELLANEOUS				
Violets, Double	.75 to 1.00	1.50 to 2.00	.75 to 1.00	.75 to 1.00
Single	.75 to 1.00	1.50 to 2.00	.75 to 1.00	.75 to 1.00
Paper White Nar., Roman Hy.	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00
Tulips, Daffodils	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00
Cattleyas	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Lilies, Callas	12.50 to 15.00	20.00 to 25.00	5.00 to 10.00	15.00 to 20.00
Freesia	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00
Gardenias	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Lily of the Valley	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00
Mignonette	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Adiantum	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00
Asparagus Plumosus, strings	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00
" & Sprenger, bunches	25.00 to 30.00	40.00 to 50.00	25.00 to 30.00	30.00 to 40.00

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Asparagus plumosus, 2 in., \$3.00; 3 in., \$6.00; 4 in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2 in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

Asparagus Crawshawii, a new, beautiful asparagus. Seedlings, \$3.00 per 100; \$25.00 1000; transplanted seedlings, \$5.00 100; \$40.00 1000. Jas. Crawshaw, 103 Plainfield, Providence, R. I.

Asparagus plumosus, 2 1-4, 3 and 4 in., \$3.00, \$6.00 and \$9.00 per 100.

Asparagus Sprengeri, 2 1-4, 3 and 4 in., \$2.00, \$4.00 and \$8.00. Special prices on 1000 lots. Mosbaek Greenhouse Co., Onarga, Ill.

ASPARAGUS SEED

S. S. Pennock-Meehan Co., Philadelphia.
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Johnson Seed Co., Philadelphia.
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BAMBOO CANES

R. M. Ward & Co., 12 W. Broadway, N. Y.
Seitaro Arai, Yokohama, Japan.
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BAUR CARNATION CLIP AND PLIERS

Baur Floral Co., 18 W. 10th St., Erie, Pa.
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BEGONIAS

H. F. Michell Co., Philadelphia.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

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A. T. Boddington, 342 W. 14th St., N. Y.

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Rickards Bros., 37 East 19th St., New York.

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H. F. Michell Co., Philadelphia.

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Johnson Seed Co., 217 Market St., Phila.

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John Scheepers & Co., 2-6 Old Slip, N. Y.
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Bulbs. Cannas, Dahlias, Gladioli, Oxalis, Madeira and Cinnamon vines, Iris, Peonies. Finest stock. C. Betscher, Canal Dover, Ohio.

CALLAS

Baby Callas, 3 in., \$3.00 per 100. P. A. Baker, Media, Pa.

CANNAS

The Conard & Jones Co., West Grove, Pa.
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Cannas, Very fine list. Send list of needs. C. Belscher, Canal Dover, Ohio.

Cannas, Pennsylvania, \$2.00; Niagara, Buttercup, \$5.00 per 100. P. A. Baker, Media, Pa.

50,000 Cannas, fine, \$10 to \$15 per 1000. Best sorts. Write Benj. Connell, West Grove, Pa.

Cannas, 150,000 in the 50 best varieties. Descriptive list now ready. Mosbaek Greenhouse Co., Onarga, Ill.

Cannas, enormous stock, 30 Standard Sorts. Bargain prices until Catalogue is issued. Send for list. Nathan Smith & Son, Adrian, Mich.

Cannas, 500,000 plump, sound roots, no culls, true to name, 2 to 3 eyes and more, all the leading kinds, \$7.50 per 1000, and upwards. Write for list and price before you buy elsewhere. Ask for list of Dahlias. Shellroad Greenhouses, Grange, Baltimore, Md.

Cannas. Good bulbs, 2 or 3 eyes, Austria, Robusta, Augusta Ferrier, King Edward, Victor Hugo, Morning Star, Paul Marquant, Pennsylvania, Robert Christie, Admiral Courbet, Mlle. Berat, Flamingo, Partenope, \$2.00 per 100. Started roots from sand after March 1, \$2.50 per 100. Est. of David Fisher, Woburn, Mass.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mahelle.

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S. S. Skidelsky, 824 N. 24th St., Phila.

Rose Pink Enchantress.

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Chicago Carnation Co., Joliet, Ill.

Carnations Aristocrat, White Perfection and Red Riding Hood.

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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Carnations, Winsor, White Enchantress, Helen M. Gould.

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J. W. Howard, Somerville, Mass.
Carnation Debutante.

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CARNATIONS—Continued.

A. J. Guttman, 43 W. 28th St., New York.

John E. Haines, Bethlehem, Pa.
Carnation Imperial and Pink Imperial.

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F. Dorner & Sons Co., Lafayette, Ind.

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Guttman & Weber, 43 W. 28th St., N. Y.
Carnation Victory.

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H. A. Stevens Co., Dedham, Mass.

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A. W. Williams, Highland, N. Y.

Peter Fisher, Ellis, Mass.

Cottage Gardens Co., Queens, N. Y.
Carnation Beacon.

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N. Y. Cut Flower Co., 55-57 W. 26th St., New York.

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S. S. Pennock-Meehan Co., Philadelphia.

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Harlowarden Greenhouses, Greenport, N. Y.

Send for list of rooted cuttings of new and leading commercial varieties of carnations and chrysanthemums. Wm. Swayne, Kennett Square, Pa.

Elbon, a fine red carnation, easy to grow, a money maker. Fine rooted cuttings, \$20.00 per 1000, \$2.50 per 100. Send for catalogue of 35 other varieties. Locust Street Greenhouses, J. H. A. Hutchinson, Prop., Oxford, Pa.

We can furnish several thousand unrooted cuttings of Fair Maid and Queen Louise for immediate delivery at \$6.00 and \$5.00 per thousand. Cohanzle Carnation Greenhouses, New London, Conn.

Healthy rooted carnation cuttings Queen Louise, Hill, Gomez, Norway, Boston Market, \$9.00 per 1000. Melody, \$5.00 per 100. Red Lawson, \$15.00 per 100. Lawson, Harlowarden, Mrs. Nelson, \$12.50 per 1000. White Cloud unrooted, \$1.00 per 1000. Wm. Ehmann, Corfu, N. Y.

CEDAR BEAN POLES

1 1-2 inch butt, 5 ft. to 7 ft. long, \$10.00 per 1000; 2 inch butt, 8 ft. long, \$15.00 per 1000; 2 1-2 inch butt, 10 to 12 ft. long, \$22.50 per 1000. H. R. Akers, Chatsworth, N. J.

CHRYSANTHEMUMS

Eggeling Floral Co., 1653 S. Grand Ave., St. Louis, Mo.

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Charles H. Totty, Madison, N. J.

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Harlowarden Greenhouses, Greenport, New York.

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Chrysanthemums, Jeanne Nonin, C. Touset, Mrs. Brice, Roi d'Italie, Fred Lemon, Merza, Cobbold, M. Ware, Oct. Sunshine, Beauty of Sussex, \$2.00 per 100. Glory Pacific, Kalb, Monrovia, Polly Rose, Alliance, Mrs. Robinson, J. Shrimpton, Bride, Bonnafton, Halliday, Duckham, Cullingford, Mrs. Chamberlain, Arline, Ermenida, W. Bonnafton, Princess, M. Friend, Nellie Pickett, Lincoln, W. Jones, G. Wedding, Ben Wells, Yellow Eatou, Engue hard, Mrs. Weeks, Appleton, G. Trophy, Florence Teal, A. Balfour, Intensity, Mme. Perrin, \$1.50 per 100; \$12.50 per 1000. Wm. Ehmann, Corfu, N. Y.

CLEMATIS

Clematis Paniculata. Strong field-grown plants. \$15.00 per 100; strongest, \$30 per 100. Quotations on larger quantities. Est. David Fisher, Woburn, Mass.

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CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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DAHLIAS

David Herbert & Son, Atco, N. J.
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J. K. Alexander, E. Bridgewater, Mass.
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Harlowarden Greenhouses, Greenport, New York.
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DAISIES

Leedham Bulb Co., Santa Cruz, Cal.
Shasta Daisies.
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Alexandra Daisies, 2 in., \$1.50 per 100.
P. A. Baker, Media, Pa.

Daisy Queen Alexandra, nice 2 and 2 1-2 inch pot plants. A new semi-double white flowering variety. Handsome pot plants for spring trade. \$2.50 and \$3.00 per 100; cash. Theo. F. Beckert, Coraopolis, Pa.

DECORATIVE PLANTS

A. Leutny & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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Pandanus Veitchii, rooted cuttings, \$12.00 per 100. Henry S. Pennock, Neptune, Fla.

DRACAENAS

Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

EASTER FLOWERING PLANTS

A. Schultheis, College Point, N. Y.
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FERNS

A. Leutny & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitmanii.

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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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P. R. Quinlan, Syracuse, N. Y.
Nephrolepis Whitmanii and Elegantissima.
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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2 Bowery, New York.

FLORISTS' FERTILIZER

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.

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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.

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N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

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H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.

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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens

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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.

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J. Stern & Co., 125 N. 10th St., Phila.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

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Edward Higgins, 1 W. 28th St., N. Y.
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Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.

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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.

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Thos. Young, Jr., 41 W. 28th St., N. Y.
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Eyres, 11 N. Pearl St., Albany, N. Y.

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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.

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Samuel Murray, 1017 Broadway, Kansas City, Mo.

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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.

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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.

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William J. Smyth, Michigan Ave and 31st St., Chicago.

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Wm. H. Rock Flower Co., Kansas City, Mo.

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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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Syracuse Red Pots.

Syracuse Pottery Co., Syracuse, N. Y.
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GALAX

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

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Caldwell the Woodsman Decorating Co., Evergreen, Ala.

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J. N. Pritchard, Elk Park, N. C.
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Bronze and green galax. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

Galax leaves, leucothoe sprays, dagger and fancy ferns, green and bronze. Write F. W. Richards & Co., Banner Elk, N. C.

GERANIUMS

R. Vincent, Jr., & Son, White Marsh, Md.
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GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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Gladioli. C. Betscher, Conal Dover, O.

GLADIOLI—Continued.

Gladioli, named varieties. Write for list. E. E. Stewart, Rives Junction, Mich.

Gladioli, named varieties. Write for list. E. E. Stewart, Rives Junction, Mich.

Gladiolus Augusta, 1st size, \$12.00; 2nd size, \$8.00 1000. Cash. Rowehl & Granz, Hicksville, N. Y.

Gladioli, all sizes. Stock direct from Groff. Nothing better, \$1.00 to \$5.00 per 1000. P. O. Coblenz, New Madison, Ohio.

Groff's hybrids, good blooming size, \$8.00; small blooming size, \$5.00 per 1000. Bulb-lets \$2.00 per peck, \$5.00 per bushel. E. B. Macomber, 20 Leonard St., Portland, Me.

Gladioli, Groff's hybrid, choice mixture, No. 1, \$8.00 per 1000; No. 2, \$6.00; No. 3, \$3.00; No. 4, \$1.50. The latter will generally bloom. Gladioli in thirty named varieties. See price list. The E. Y. Teas Co., Centerville, Ind.

GLASS

Boston Plate & Window Glass Co., Boston.
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Peerless Glass Repair Clamp; you need them—100 for \$1.00. A. Klokner, Wauwatosa, Wis.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.

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Weathered Co., Box 789, New York.

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Foley Mfg. Co., 471 W. 22nd St., Chicago.
Theodore Miller, 4832 Delmar Bvd.,

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.

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The Kervan Co.,

20 W. 27th St., New York.

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich., Wm. Dilger, Mgr.

Fancy Ferns.

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E. A. Heaven, Evergreen, Ala.

Endless Sheet Moss.

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Hardy cut ferns. L. B. Brague, Hinsdale, Mass.

Fancy Ferns, green sheet moss; leucothoe sprays, etc. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Perennial plants, 50,000 field and pot-grown. Descriptive list now ready. Mosback Greenhouse Co., Onarga, Ill.

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Kreeschell Bros., 35 Erie St., Chicago.
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In writing to Advertisers kindly mention Horticulture

HORICUM

Hammond's P. & S. S. Works, Fishkill-on-Hudson, N. Y.
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HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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R. M. Ward & Co., 12 W. Broadway, N. Y.
Seitaro Arai, Yokohama, Japan.
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H. H. Berger & Co., 47 Barclay St., N. Y.
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Godfrey Aschmann, 1012 Ontario St., Phila.
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A. Leuthy & Co., Roslindale, Mass.
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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Eyes, 11 N. Pearl St., Albany, N. Y.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.
Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Ave. and 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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NICO-FUME

Ky. Tobacco Product Co., Louisville, Ky.

NURSERY STOCK

John Waterer & Sons, Ltd., American Nursery, Bagshot, England.
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Cottage Gardens Co., Queens, N. Y.
Speichner Nursery Stock.
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John Scheepers & Co., 26 Old Slip, N. Y.
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The Conard & Jones Co., West Grove, Pa.
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F. W. Kelsey, 150 Broadway, New York.
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Elizabeth Nursery Co., Elizabeth, N. J.
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NURSERY STOCK—Continued.

To clear the land for other stock. 3000 Willow, Laurel Leaved and Golden, 4 to 6 ft., \$9.00 per 100; 6 to 8 ft., \$14.00 per 100. 4000 White Pine, 8 to 14 in., transplanted, \$6.00 per 100; 6 to 10 in., seedlings, \$3.50 per 100. 2000 Hemlock, 4 to 6 ft., transplanted, \$70.00 per 100; 6 to 10 in., seedlings, \$3.50 per 100. Fine, clean stock. The Pierce Nursery, Beverly Farms, Mass.
Edward Bellamy althaea, best double pure white in cultivation, 2 to 3 ft., \$5.00 per 100.
Calycanthus (sweet shrub), 1-1/2 to 2 ft., transplanted, \$5.00 per 100.
Wistaria magnifica, 3 years transplanted, \$3.00 per 100; \$25.00 per 1000.
Sugar maple seedlings, very fine, 1 to 1-1/2 ft., \$8.00 per 1000; 6 to 12 inches, \$5.00 per 1000. The E. Y. Teas Co., Centerville, Ind.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Carrillo & Baldwin, Secaucus, N. J.
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A. Held, 11-19 William St., New York.
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Seibrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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PALMS

A. Leuthy & Co., Roslindale, Mass.
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Seibrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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PANSIES

Pansy plants; strong transplanted \$4.00 and \$10 per 1000. F. A. Baller, Bloomington, Ill.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Cottage Gardens Co., Queens, N. Y.
Peonies, fine assorted, \$10.00 per 100. F. A. Baller, Bloomington, Ill.
Peonies, 1200 sorts. Greatest list anywhere. C. Betscher, Canal Dover, Ohio.
Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.
Choice mixed single and double seedlings from our noted collections of over three hundred varieties, strong undivided clumps, \$6.00 per 100. Mt. Desert Nurseries, Bar Harbor, Me.

PHILADELPHUS

Syringa grandiflora, 3 years, strong, \$15.00 per 100. John Stamm, Hutchinson, Kan.

PHLOXES

Twenty choice named varieties, strong field grown plants, \$4.00 per 100; \$30.00 per 1000. Mt. Desert Nurseries, Bar Harbor, Me.
Hardy phlox, best assortment, standard varieties, 2-year, field clumps, \$3.00 per 100; \$25.00 per 1000. John Stamm, Hutchinson, Kan.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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PRIVET

10,000 California Privet 1-year, well rooted. \$1.25 per 100; \$10.00 per 1,000. Address W. F. Allen, Salisbury, Md.

PRUNING SHEARS

Rhodes Mfg. Co., Grand Rapids, Mich.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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Bassett & Washburn, Hinsdale, Ill.
Rooted Cuttings of Kaiserin, Pres. Carnot, La Detroit.
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Paul Niehoff, Lehighton, Pa.
Rose Aurora.
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Robert Scott & Son, Sharon Hill, Del. Co., Pa.
Grafted Roses.
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The Conard & Jones Co., West Grove, Pa.
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Bay State Nurseries, No. Abington, Mass.
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S. S. Pennock-Meehan Co., Philadelphia.
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A. N. Pierson, Cromwell, Conn.
Grafted Roses, Own-Root Beauties.
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Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2-1/4-in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SEEDS

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Joseph Breck & Sons
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co., 33 Barclay St., N. Y.
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Henry A. Dreer, Philadelphia.
New Orchid-Flowering Sweet Peas.
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A. T. Boddington, 342 W. 14th St., N. Y.
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H. F. Michell Co., 1017 Market St., Phila.
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James Vick's Sons, Rochester, N. Y.
Aster Seed.
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W. W. Rawson & Co., 5 Union St., Boston.
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Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Rickards Bros., 37 E. 19th St., New York.
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Johnson Seed Co., 217 Market St., Phila.
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R. & J. Farquhar & Co., 6-7 So. Market St., Boston.
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Watkins & Simpson, 12 Tavistock St., London, Eng.
Sweet Pea Novelties.
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Wm. Elliott & Sons, 201 Fulton St., N. Y.
Begonia Vernon.
For page see List of Advertisers.
I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.
Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.
Aster Seeds, home-grown, strictly pure. Prices right. Nathan Smith & Son, Adrian, Mich.

SHAMROCKS

Genuine Irish Shamrock (original plant came from cemetery of Downpatrick in Ireland) now ready. 2-1/2-in., \$4.00 per 100; \$35.00 per 1000; 250 at 1000 rate; 15c. each; 60c. doz. by mail. Cash. J. D. Harcourt's Sons, Wappingers Falls, N. Y.

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Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Wizard Brand.

R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston.
Pulverized Sheep Manure.
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E. A. Beaven, Evergreen, Ala.
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Dewberry plants, Lucretia and Austin, \$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00 per 1000, \$25.00 per 5000. Turner red raspberry plants, \$6.00 per 1000, \$25.00 per 5000. W. F. Allen, Salisbury, Md.

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Smilax seedlings, fall-sown, \$3.00 per 1000. F. A. Baller, Bloomington, Ill.

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Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

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Wm. Elliott & Sons, 201 Fulton St., N. Y.
Spirea Gladstone.

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Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

TOMATO SEEDS

Wm. Sim, Cliftondale, Mass.
Comet Tomato.
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UNLEACHED HARDWOOD ASHES

John Joynt, Lucknow, Ont., Can.
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VEGETABLE PLANTS

50,000 large 4-year old Barrs Mammoth Asparagus roots, \$6.00 per 1000; \$25.00 per 5000 (500 will fill a sugar barrel.) Address W. F. Allen, Salisbury, Md.

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Lord & Burnham Co., 1133 Broadway, N. Y.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VINCAS

Vincas, variegated, 3-in., \$4.00 per 100; Vinca minor (myrtle), 3-in., \$3.00 per 100. C. F. Mahan, R. D. No. 8, Dayton, O.

Myrtle (Vinca minor). Here I am again with the biggest stock in America, \$10.00 to \$40.00 per 1000. S. J. Galloway, Eaton, Ohio.

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H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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Wanted—Mrs. Roosevelt calla.
Wanted—You to send for my price list of hardy plants, etc. It's free. S. J. Galloway, Eaton, Ohio.

WILD SMILAX

E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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Caldwell the Woodsman Decorating Co., Evergreen, Ala.
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WIRE HANGING BASKETS

Frank W. Ball, 31 East 3d St., Cincinnati.

WIREWOK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.
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William E. Heilscher's Wire Works, 38 40 Broadway, Detroit, Mich.
The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.
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The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

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Messrs. Olmsted Brothers sent us the following communication:

"We desire to communicate with gardeners, both single and married, who have had experience in all kinds of outside and inside work. They should be thoroughly familiar with plants and planting, and should also have had experience in grading and road construction. We constantly have calls for men who have had experience in the above line of work and desire to have their names on our books. Gardeners should, if possible, apply in person. **OLMSTED BROTHERS,** Brookline, Mass.

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Washington, D. C.—F. H. Kramer, rose house 50x75, by Lord & Burnham Co.

Baltimore, Md.—Feidler & Son, two houses each 30x200 by Lord & Burnham Co.

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Issued February 5, 1907.

- 842,924. Fertilizer Distributer. George T. Vaughn, Huntsville, Ala.
- 843,025. Soil Pulverizer and Smoother. Frederick Miller, Union County, Ind.
- 843,150. Horse Hay-Rake. Aaron F. Kearns, Moscow, Okla.
- 843,160. Tongueless Cultivator. Chas. E. Macbeth, Hamilton, Ohio, assignor to The Long & Allstatter Co., Hamilton, Ohio.
- 843,257. Plow. Herman F. Brussow, Whittier, Cal.
- 843,393. Plow or Cultivator. William T. George, Fayetteville, Tenn., assignor of one-half to James A. Moores, Fayetteville, Tenn.
- 843,399. Weeding and Cultivating Device. Thomas J. King, New York, N. Y.
- 843,457. Planter. Wilford H. Holclaw, Louisville, Ky., assignor to B. F. Avery & Sons, Louisville, Ky., a Corporation of Ky.
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144 6 " " 3.16	24 12 " " 4.80
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Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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Economy Greenhouse Brackets

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Three florists' open wagons, three florists' top wagons and three sets of harnesses. Can be seen at 1 West 28 St., New York.

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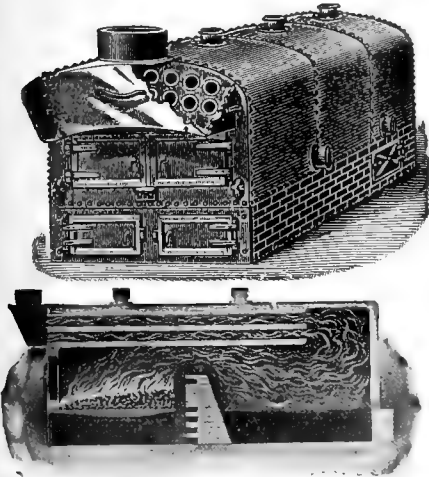
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Boilers made of Steel Boiler Plate; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for Information.



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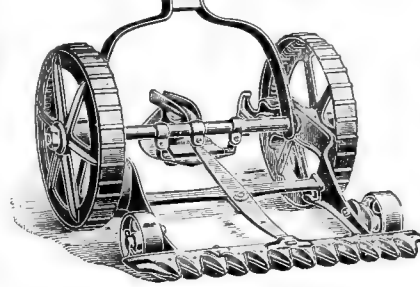
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Mineralized Rubber Co.
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YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address
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Clipper Lawn Mower Co. DIXON, ILL.
The Mower
that will kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-inch Mower \$5; No. 2—15-inch Mower \$6; No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8. Send draft money-order or registered letter. In writing advertisers, mention Horticulture

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32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

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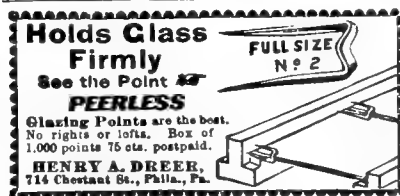


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GREENHOUSE MATERIAL
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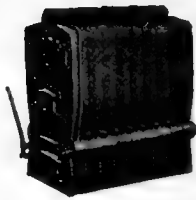
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German and American

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A. H. HEWS & Co. Inc.
CAMBRIDGE MASS.
KIND OF WARE FLOREST

H AND O



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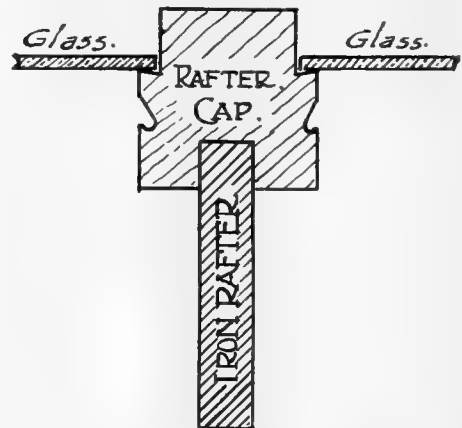
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Manufacturers of Heating and Ventilating Apparatus.

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NEW YORK.

H AND O



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in our Iron Frame House does not mean only a protection from glass breakage—it's a non-conductor of heat in the summer—of cold in the winter—it means a difference of a good many degrees in the summer—an economy of many pounds of coal in the winter. Just one of our iron frame points that goes to show how carefully every point and phase has been considered. There's not a better house made. Send for Our Iron Frame Circular.

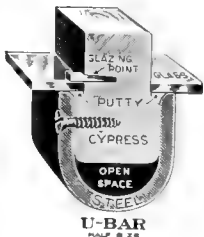
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Greenhouse Designers and Manufacturers

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BOSTON Branch: 819 Tremont Building



TWO kinds of leaks are disastrous to greenhouses—weather leaks and heat leaks. U-Bar greenhouses are the best greenhouses

built because their construction is the tightest

made. All weather shut out, all needed heat shut in.

Send for catalog. Pierson U-Bar Company, Designers

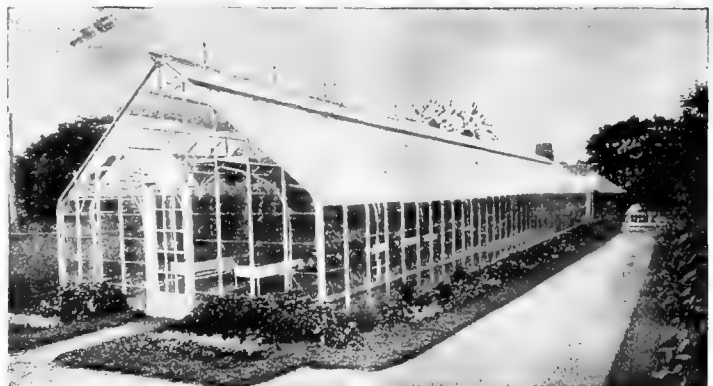
and Builders U-Bar

Greenhouses, Metro-

politan Building, Fourth

Ave. and 23rd Street,

New York.



HORTICULTURE

Vol. V.

MARCH 2, 1907

No. 9



CASTLETON GARDENS, JAMAICA

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

CARNATION WINSOR

We have not advertised Winsor until now because we have not had to. It is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders and have a fine lot of stock on the cutting bench, so that we can promise, for the present, February delivery on orders received within a short time at least.

If you have not already purchased a stock of this, you should lose no time doing so. We are going to sell more Winsor than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market, where our flowers are sold.

There is nothing on the market that approaches Winsor to-day in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities—in fact, in this regard it covers every necessary requisite as a market variety.

From a growing standpoint, it leaves little to be desired. It is unusually healthy, very vigorous and productive, and, we think, the most profitable carnation ever introduced. This may seem high praise for a carnation, but it is no exaggeration. Winsor gives a large percentage of high-quality flowers. It practically does not split at all. Notwithstanding the fact that we have had the darkest, dullest winter we have ever had, when the Enchantress and Lawson types are splitting badly all over the country with every one, we have not had one-half of one per cent. of split calyxes or Winsor—in fact, we seldom see a split calyx. Hundreds of visitors who have been at our Scarborough place will substantiate this statement, extravagant as it may appear.

Any one who fails to plant Winsor this year will regret it. Rose Pink Enchantress is good, and a good many other varieties are good, but if you want the winner, plant Winsor.

We not only have a good thing in Winsor, but we are delivering good stock. As a sample of the testimonials that we are receiving, see this space in last issue. We are trying to give 110 cents on the dollar, and guarantee to please everybody with the stock sent out, or we will not ask you to pay for it. We have still to receive our first complaint, and we have shipped between one and two hundred thousand cuttings to date.

STRONG ROOTED CUTTINGS, February delivery, \$12.00 per 100, \$100.00 per 1,000.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

BEACON CARNATION

(ORANGE - SCARLET)

Beacon comes up
quickly into bloom and
keeps at it right along

**HAS PROVED THE MOST
PROFITABLE COMMERCIAL
SCARLET**

It's a
Bread Winner

Prices

Per 100, \$12.00, 50 at 100 rate
" 1000, 100.00, 250 " 1000 "
" 2500, \$95.00 per 1000

Per 5000, \$90.00 per 1000
" 10,000, 80.00 " "

In lots of 20,000 or more, cash with order \$75.00 per 1000

MARCH DELIVERY

THE COTTAGE GARDENS CO.
Queens, N. Y.

PETER FISHER (Originator)
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not only has one of the largest, but one of the finest collections of any firm in America. We have over a million Dahlia roots to sell this coming season. Send for prices.

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DAHLIAS.

Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc.
ATCO, N. J.

Chrysanthemum Novelties

Now ready for immediate delivery.

From 2½ Inch pots

MRS. CLAY FRICK

(The white sport of Wm. Duckham)

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\$35.00 per 100

The finest stock you ever bought of a novelty. My list was mailed you. If you did not get it write me.

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C. Touset and Nonin, the money makers as we have found them. \$1.00 per doz.; \$7.00 per 100; \$60.00 per 1000. Pacific, Estell, Willowbrook, Halliday, Kalb and L. Harriet, 60c per doz.; \$4.00 per 100; Cash with order.

EGGELING FLORAL COMPANY
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ALASKA, CALIFORNIA, WESTRALIA

strong, field-grown divisions, true to name, \$2.50 per 100. Express paid for cash with order.

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You Cannot Afford to be Without these Two Excellent Varieties

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The Wholesale Florist of New York
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JOHN E. HAINES,

BETHLEHEM, PA.

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Rooted Cuttings, A No. 1 Stock,
that will give the best
of satisfaction

	Per 100	Per 1000
Helen Goddard	\$6.00	\$50.00
Robert Craig	5.00	45.00
Victory	6.00	50.00
Lieut. Peary	3.50	30.00
Lady Bountiful	3.00	25.00
Enchantress	2.50	20.00
Lawson	2.00	15.00
White Lawson	2.50	20.00
Harry Fenn	2.50	20.00
Queen	2.00	15.00
Cardinal	3.00	25.00
Flamingo	3.00	25.00
Jno. E. Haines	6.00	50.00
Lawson White	2.50	20.00
Red Sport	3.50	24.00
Boston Market	1.75	15.00
Variegated Imperial	12.00	100.00
Pink Imperial	12.00	100.00

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GRAFTED STOCK

Chatenay, 2½ in.		
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Joe Hill, 2½ in., \$8.00 and \$9.00 per hundred

GRAFTED, ENGLISH MANETTI STOCK

Kaiserin, Bride, Maid,		
Killarney, Richmond,		
Wellesley, Chatenay,		
2½ in.	10.00	100.00

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own roots 10.00
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(TRUE PLUMOSUS NANUS)

Greenhouse grown. \$4.50 per 1000 seeds. Special quotation on lots of 10,000 or more.

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JOHN E. HAINES, The Leading Scarlet

brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass. All shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted, healthy cuttings leave the place. Rooted cuttings ready Dec. 15, 1906. Price, \$6.00 per 100; \$50 per 1000.

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Per 100:—Light Pink Lawson, \$6.00; White Lawson, \$2.50; Variegated Lawson, \$2.50; T. W. Lawson, \$2.00; Enchantress, \$2.50; Harry Fenn, \$2.50; Manley, \$2.50; Boston Market, \$2.00; Fair Maid, \$2.00

HENRY A. STEVENS CO.

East Street, Dedham, Mass.

Rooted Cuttings

CARNATIONS

	Per 100	Per 1000
White Perfection, pure white	\$6	\$50
White Lawson	3	25
Lady Bountiful	3	25
Lieut. Peary	4	30
Red Riding Hood, new scarlet	12	100
Victory	6	50
Cardinal	4	30
Red Lawson	4	30
Daybreak Lawson or Melody	6	50
Enchantress	2.50	20
Helen Goddard	5	45
Fiancee	4	30
Variegated Lawson	3	25
Harlowarden	2	15

Aristocrat, beautiful cerise, the best variety disseminated this season.

MUMS

MARCH 15th.

\$2.00 per 100	\$15.00 per 1000
Mrs. Mary Mann	Touset
Nertham Yellow	Mrs. Nathan Smith
W. H. Chadwick	White Bonnaffon
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Cremo	Pink Ivory
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ROSES

\$2.00 per 100	\$15.00 per 1000
Time. Chatenay	Brides
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Chicago Carnation Co., A. T. PYFER, Manager **Joliet, Ill.**

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New Pink Carnation for 1907

Color—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most Pinks, the brightest sun does not injure the color. Size—3 to 4 inches in diameter when established. Odor—Pleasing, but not strong. Stems—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. Habit, etc.—A very quick, active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness—P. odious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. Delivery January 5th to 10th and later.

Price \$12.00 per 100, \$100.00 per 1000

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It is both free and "fancy"—a sure money-maker.

Price \$7.00 per 100; \$60 per 1000

Delivery January and later. Write for Descriptive Circular.

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Red Chief—Bright scarlet—early and very productive. \$12.00 per 100; \$100.00 per 1000. Average 3 in. flower. A leader in every respect.

Bonnie Maid—Clear pink edged white.—\$12.00 per 100; \$100.00 per 1000. Large well formed bloom. Very early and productive.

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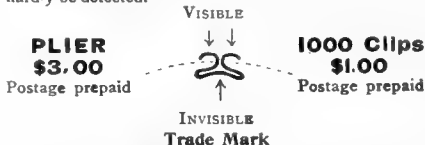
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a wonderful bloomer; flowers from four to four and one-half inches in diameter; white mingled with purple, nicely fringed; an early bloomer; fine seller for Decoration Day; planted outdoors will bloom all summer. Strong plants, ready Feb. 15, \$1.50 per doz.; \$10.00 per 100. \$90.00 per 1000.

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Joseph Traudt, Prop. Canajoharie, N. Y.
Scranton Florist Supply Co.
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The BAUR CLIP and PLIER will do it in a Businesslike manner at a minimum of time and expense. Inexpensive, Instantaneous Applied and Practically Invisible. The clips are made of galvanized wire and are colored green just the color of the calyx and can hardly be detected.



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Strong Field roots of leading cactus and other dahlias, such as Kriemhilde, Brunhilde, Strahlen Krone, Winsome, Dainty, Lonsdale, Ruth, etc., \$4.00 per 100, \$35.00 per M. Send for full list of kinds.

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Originated and introduced by
H. R. CARLTON, Willoughby, O.
We have the following stock in the finest condition to plant and now is the time to plant:

2½ inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000
4 " " 2.50 " " 12 " 100 " 75 " 1000

It will pay you. Try it. Order at once.

SAVE YOUR PINKS

before splitting. Don't try to patch them up with wires. That would do in the 19th but not the 20th century. Use the T. & D. Artificial Calyx. \$1.75 per 100, \$15.00 per 1000. Send for Sample.

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In nursery stock of all kinds.

PRIVET—3 to 4 ft. at \$3.50 per 100, \$30.00 per 1000.
3 to 4 ft., XX heavy 4.00 " 100, 35.00 " 1000.
4 to 5 ft., extra heavy 5.00 " 100, 40.00 " 1000.
5 to 6 ft., 6.00 " 100, 50.00 " 1000.

HYDRANGEAS—2 to 3 ft. at \$7.00 per 100.
3 to 4 ft. at 10.00 per 100.
3 to 4 ft. XXX at \$12.00 per 100.

CARYOPTERIS MASTACANTHUS, field grown, at \$6.00 per 100.

STEPHANANDRA FLEXUOSA—18 to 24 in. at \$7.00 per 100; 2 to 2½ ft. at \$8.00 per 100.

SPIREA VAN HOUTTEI—3 to 4 ft. at \$8.00 per 100.

VIBURNUM PLICATUM—2 to 3 ft. at \$12.00 per 100; 3 to 4 ft. at \$15.00 per 100.

70,000 AZALEA APOEANA—Special prices on application.

HONEYSUCKLES—2 yr. old, in large quantities at \$5.00 per 1000.

600,000 HERBACEOUS PLANTS.

PINK PEONIES in large clumps at \$10.00 per 100.

30,000 CREEPING ROSES at low prices given on application.

THE ELIZABETH NURSERY CO.
ELIZABETH, N. J.

GRAFTED ROSES

We offer this year the following assortment: *Bride, Bridesmaid, Bon Silene, Etoile de France, Franz Deegan, Golden Gate, Ivory, Gen. McArthur, Kate Houlton, Kaiserin Augusta Victoria, Killarney, La Detroit, Liberty, Mme. Abel Chatenay, Mme. Caroline Testout, Mme. Hoste, Mrs. Pierpont Morgan, Naman Cochet, Natchez, Niel, Perle Des Jardins, Papa Gontier, Richmond, Rosalind Orr English, Souv. Du President Carnot, Souvenir De Wootton, Tom Field, Uncle John, Wellesley.*

The above grafted from 2 1-4 inch pots \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1-2 inch pots, re-potted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

AMERICAN BEAUTY

On own roots, from 2 1-2 inch pots, \$8.00 per 100; \$75.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and June delivery.

OUR GUARANTEE GOES WITH EVERY PLANT

A. N. PIERSON, Gromwell, Conn.

LADY GAY AND HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including *Frau Karl Druschki, New Hardy Hybrid Tea Dean Hole, Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.*

Catalogue mailed on request.

M. H. WALSH

ROSE SPECIALIST WOODS HOLE, MASS.

GRAFTED ROSES

ON DICKSON'S IRISH MANETTI

We are now booking orders for March delivery.

KAISERIN, BRIDE, BRIDESMAID, KILLARNEY & RICHMOND; \$120 per thousand

Order Now.

ROBERT SCOTT & SON

SHARON HILL, DEL. CO., PA.

20,000 PEONIES

For Early Spring Planting

This list comprises a great many choice and rare varieties, some of which have never before been offered to the trade in quantities. The stock is now in our storage sheds and can be shipped as soon as the weather will permit. Nothing but selected three to six eye divisions will be sent out.

Quan.	Variety	Color	Price Per 100
1000	Achillea,	Blush White	\$8.00
500	Alice de Julvecourt,	Salmon Pink	12.00
200	Beaute Francaise,	Flesh pink spotted carmine	15.00
200	Bell Douaisienne,	Flesh, fading to white	20.00
200	Beranger,	Mauve pink with bright centre	30.00
200	Charlemagne,	Creamy white, centre lilac flesh	25.00
500	Charles Verdier,	Carmine	8.00
200	Czarina,	Deep rose pink	30.00
500	Duke of Wellington,	Sulphur white	20.00
500	Festiva,	White	20.00
1000	Festiva Maxima,	White	30.00
200	Golden Harvest,	Tri-color	25.00
1000	Humei Carne,	Che-ry pink	8.00
100	Jeanne d'Arc,	Sulphur white, pink centre	30.00
500	Jenny Lind,	Bright pink, silvery reflex	25.00

Quan.	Variety	Color	Price Per 100
500	Lady Bramwell,	Silvery pink	12.00
50	La Rosiere,	Straw yellow	30.00
100	Louis Van Houtte,	Violaceous red	20.00
500	Mme. Breon,	Flesh, centre creamy white	10.00
250	Mme. Coste,	Rose	20.00
50	Mme. Rosa Rendatier,	Glossy pink, lilac reflex	30.00
250	Mme. Paillet,	Violaceous pink, shaded lilac	10.00
1000	Mont Blanc,	Lemon yellow	20.00
250	Ne Plus Ultra,	Bright rose	12.00
250	Paganini,	Rose, centre white and yellow	15.00
5000	Off. Rubra,	Deep crimson	8.00
500	Queen Victoria,	White	8.00
250	Triomphe du Nord,	Violaceous pink	12.00
1000	Double Pinks		7.00
500	Double Whites		10.00
250	Double Crimsoms		8.00
500	Double Mixed		6.00

COTTAGE GARDENS COMPANY, Queens, N. Y.

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BAGSHOT, ENGLAND

have the finest stock of recognized **Hardy Rhododendrons, Azaleas, Andromedas**, high class Evergreens and specimen Conifers. **Ask for special list of plants grown for the American trade.**

John Waterer & Sons are the **great exhibitors of Rhododendrons in London.**

ROSES

STRONG DORMANT PLANTS

American Beauty, Clothilde Soupert, Glorie de Dijon, Kaiserin Augusta Victoria, La France, Mad. Caroline Testout, Frau Karl Druschki, Crimson Rambler, Baby Rambler, Dorothy Perkins, etc., etc., **SUITABLE FOR FORCING.**

Immediate Delivery. Prices Right.

General Catalog and Price Lists ready.

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ROOTED CUTTINGS OF

Kaiserin, President Carnot and La Detroit

Strong, healthy, well-rooted cuttings, ready Dec. 1st; price \$2.50 per hundred or \$20.00 per thousand.

Try our strong, healthy, western grown wood from the best corn soil in Illinois.

BASSETT & WASHBURN
HINSDALE, ILLS.

Beautiful New Pink Rose

AURORA

See announcement and full description in "Horticulture," December 8 issue.

PAUL NIEHOFF, - Leighton, Penn.

NEW CANNAS

William Saunders 50c. each
New York \$5.00
Ottawa per doz.
\$35.00 per 100

Send for our list and descriptive catalogue. We have a large stock of the best varieties.

ROSES

on their own roots our specialty
Shrubbery IN VARIETY

Be sure and get our catalogue.

The **CONRAD & JONES CO., WEST GROVE, Pa.**

SPECIMEN NURSERY STOCK

Deciduous Trees and Shrubs, Evergreens, Rhododendrons, Azaleas, over one hundred (100) acres of the choicest varieties.

SEND FOR PRICE LIST

COTTAGE GARDENS CO.
Queens, Long Island, - New York

Gardens and Plantations of Jamaica

(See Frontispiece.)

At this time when people everywhere are sympathizing and mourning over the terrible calamity which befell the beautiful island of Jamaica, a short story about its lovely gardens and plantations should interest many.

Jamaica is only 144 miles long and 49 miles wide in its broadest part. Comparing Jamaica with other parts



ON THE RIO COBRE RIVER, JAMAICA

of the world, there are few places of the same size that can claim so many genera and species of plants. There are about 500 species of ferns, and of flowering plants there are over 2000 species described and many species are yet to be found in the Blue Mountains in parts which have not been explored.

The island has lofty, rugged mountains which are clothed with the richest vegetation. The highest peak in the Blue Mountains is 7,423 feet. These mountains at different altitudes give all kinds of climatic conditions, with the exception of frost and snow, therefore there are to be found plants from all parts of the world. In the lower parts of the island where the tropical conditions are most favorable one finds plants of the most tropical types. Up in the mountains plants from northern countries have been introduced. I found some of our North American trees and they were doing fairly well. *Liriodendron tulipifera*, the tulip tree, was a good-sized tree and the worst enemy it had to contend with was the strong winds of the high mountains. *Iris germanica* I found in bloom in January and growing most luxuriantly.

When a person gets enthusiastic over the rich vegetation of this island a listener or reader can hardly credit the descriptions given of the luxuriance of the vegetation. With this explanation about the climatic conditions at different altitudes and of the introduction of plants from all parts of the world it can be easily seen and understood how rich and varied the vegetation of this island is. Persons who are not familiar with plants give credit to Jamaica for many plants that do not

belong to its flora. In fact, the most showy plants one sees in the gardens and in the streets are not natives but have been introduced. Jamaicans are great lovers of plants and have worked hard for many years to get all the new and most showy for their gardens. When gardening was in its infancy in this country Jamaica was offering a prize of one thousand guineas to any person who would introduce the bread fruit to the island. The history of the introduction of many of the useful and showy plants that are seen in the island is intensely interesting.

The important gardens of Jamaica are its botanic and public gardens. To get at the history of the botanic gardens we have to go back one hundred and fifty years. The first botanic garden in the island belonged to a private gentleman, Mr. Hinton East, and was situated near Gordon Town, nine miles from Kingston. Sir Basil Keith was governor in 1774 and he was determined to have two botanic gardens, one a "European Garden" and the other a "Tropical Garden." In December of that year a committee of the legislature recommended that £700 be appropriated for the purchase of a piece of land for a botanic garden and that £300 be provided for the annual salary of a botanist. The following year, 1775, a piece of land adjoining Mr. East's was purchased and Dr. Thomas Clarke became island botanist. At this time we find many interesting and useful plants were introduced. This same year Dr. Clarke introduced the tea plant, camphor, Litchi, *Ciccas circinalis* and *Desmondium gyrans*. Three years later



ON THE RIO COBRE RIVER, JAMAICA

Akee (*Blighia sapida*) was introduced and in 1779 the clove tree was first brought to the island. About this time it was found that the ground in the botanic garden at Gordon Town was unsuitable for some of the plants and it was decided to purchase land at Bath where the climatic conditions and the soil were more favorable.

In the year 1782 one of Lord Rodney's squadron captured a French ship bound from Mauritius for Hayti

and on board were found many exceedingly useful economic plants. They were sent to the botanic garden at Gordon Town and were found to comprise many new introductions such as mango, cinnamon and jack fruit. In 1829 the botanic garden at Bath was increased by three acres of land. Later on in 1846 and 1847 Sir W. J. Hooker, director of Kew Gardens was much interested in Jamaica and sent many new plants such as mangosteen, Durian and *Musa Cavendishii*. *Poinciana regia*, *Spathodea*, *Bougainvillea spectabilis*, *Amherstia nobilis*, and Assam tea were introduced in 1849-1850.

In 1860 the land for Castleton gardens was purchased and in this same year seeds of *Cinchona succubra*, *C. nitida*, and *C. micrantha*, were sent from Kew by Sir W. J. Hooker, and many plants were raised from them. During Sir John Peter Grant's administration in 1868 the cinchona plantations were begun and he assigned 600 acres of virgin forest land for this purpose on the southern slopes of the Blue Mountains ranging from 4,000 to 6,000 feet above sea level. We find at this time that Gov. Grant was very much interested in the gardens and through his influence with Sir Joseph Hooker many new plants were received from Kew which greatly enriched the gardens. Many of the fine plants in Castleton were planted during his administration. Sir John also began the wonderful irrigation plant on the Rio Cobre river at Spanish Town where today can be seen the finest bananas in the island of Jamaica or perhaps in the whole world. Quite a large amount of money was spent on this fine irrigation system. The governor, who had spent many years in the East Indies, was well posted in all that belonged to irrigation, and he knew well the effect it would have on the vegetation on the plains. The people were slow to take to the new idea of irrigating the land and the governor never saw the effect on the crops that were grown on the irrigated soil.

At this time another great piece of work was undertaken, the planting of the Palisades with cocoanut palms. The Palisades is a narrow strip of land with Port Royal at one end, and this narrow strip of land makes a natural breakwater to the beautiful harbor. It took over twenty thousand cocoanut palms to plant this piece of land. The plants grew well and greatly improved the natural beauty of the harbor. However, I am afraid that most of the plants perished in the dreadful earthquake of January 14th.

Another garden of great importance to the city was begun at this time. It is known as Parade Garden and is situated in the centre of Kingston. It proved a great boon during the last earthquake as it was the only place where the people could escape from the falling buildings. The governor at this time was much interested in sugar cane and ordered that every species and every true distinct and permanent variety should be procured and space given to them at Castleton gardens. Very soon the gardens had over sixty new varieties of sugar cane, most of them coming from the Mauritius botanic garden. The government, about 1873, obtained possession of about 200 acres of land at Hope, a place about five

or six miles from Kingston. Very soon the collection of sugar canes at Castleton had to be transferred to Hope and this was the beginning of one of the most interesting of all the gardens in Jamaica.

These gardens are more than botanic gardens, in fact they do the work that we are doing in this country at our experimental stations, and have been of great service to the people. They introduce new plants, propagate them and send them out to the people. They pay particular attention to economic plants. Much time has been spent in raising sugar cane seedlings and they have raised some fine promising ones. Some of these have been tested and they produce a much larger quantity of sugar per acre than the old varieties did.

Before concluding these notes it would be unfair not to give credit to a man who took charge of most of the practical work done at Castleton in its early years, planting the Palisades and starting the cinchona plantations and gardens in the Blue Mountains. This gentleman's name I found in the visitor's book at Cinchona Gardens last January and above his signature I was pleased to read the following note: "I made and planted this garden thirty-seven years ago, and I am pleased to see how beautiful and well it looks today, Oct., 1906. Robert Thompson."

You will also notice in these notes that during Sir John Peter Grant's governmentship that much was done to the gardens and plantations. I was very deeply interested in his work and made much inquiry, because I was brought up on his estate in Scotland and worked in his garden. He made a good governor for Jamaica and was a good laird in Scotland.

The happy recollections of the rich and varied land; the luxuriant vegetation; the wonderful scenery, and the pleasant people of this island, where only a few weeks ago I traversed these delightful mountains, are still fresh in my memory. I was shocked when I learned of the terrible calamity which had destroyed the lovely surroundings of Kingston. Only a few days before I had climbed these mountains, up 6,000 feet, and I marvelled then at their wonderful formation and also thought of the terrible things that must have happened when they were formed. At a time like this a person wants to find out the meaning of the word earthquake and what it is, and turns to Geikie and Shaylor to get information; but these great sages can tell very little of the stupendous things that take place in the centre of the earth. Anyway, one thing that comes right home to a person who has travelled and observed in these wonderfully formed mountains is that this great calamity which recently befell the island is only as a flea bite compared with the things that have taken place there in the millions of years that have passed.

The day I left the city of Kingston it was all aglow with bunting and flags, cannons boomed, bands played, every one rejoiced to greet and meet men who had come to visit them from various parts of the world on the occasion of the Agricultural Conference, and who had done much for their beautiful island. How little we know in the midst of our rejoicings what may happen to us! Two days later the whole world shuddered at what took place in a few minutes' time in Jamaica.

In other articles I should like to tell you and show you what these gardens contain and what they are doing in them.



British Horticulture

AN EARLY CARNATION SPECIALIST.

In the recently published report of the National Carnation and Picotee Society, an interesting reference is made to Mr. James Hogg, a leading cultivator of carnations of sixty years ago. His best known work is entitled "The Carnation and Other Garden Flowers," which ran into several editions. It contained a colored plate of a bizarre carnation, very much in the style of Franklin's Tartar, published half a century earlier. A full description is given of the yellow ground picotees. The yellow carnation was introduced into England in the reign of Queen Elizabeth, and had developed into the yellow ground picotee in the 17th century, but probably owing to the English climate not being adapted to the seeding of carnations in the open garden the best yellow ground picotees came from the Continent in Hogg's time, and he states that some of them were raised in Morocco. The names of fifty varieties are given, but none of them are English. Hogg records the fact that the Empress Josephine had an admirable collection of yellow picotees in her garden at Malmaison, and he adds: "The late Queen Charlotte and the Princesses had a superb collection of yellow picotees at Frogmore."

THE LATEST CARNATION BOOK.

From Hogg we gain an insight into the early development of the carnation. The "last word" at present on the subject is obtained from an interesting book recently published by Mr. Haywood Mathias, the secretary and originator of the Winter Flowering Carnation Society, and Mr. P. Smith, who has been associated with Mr. Mathias in his culture of the flower at Medstead in Hants. The writers take a broad view of the situation and have no foolish prejudice, as is the case with some Britishers of insular ideas. "The superiority of the American over the English winter-flowering carnation is indisputable," they state, "at any rate as far as practical decorative value is concerned, and though it cannot and must not be judged by the standard of our border varieties, for the purpose for which it is designed, the American cannot be beaten by anything hitherto produced on this side of the water." Dealing with items of culture, the writers point out that the bench system is universal in America, but they consider that this is only applicable where carnations are grown commercially and on a large scale. "It does not at all follow," the authors concede, "either that what answers in America should of necessity answer in England, where the climatic conditions are absolutely different, and we may mention that far and away the best

blooms we have seen in this country have been grown in pots, and have been the produce of three different nurseries."

THE LATE SIR MICHAEL FOSTER.

The loss of a great horticulturist is mourned in the recent demise of Sir Michael Foster, who for many years had devoted attention to improving the iris. Sir Michael took up the cultivation of irises over thirty years ago. He commenced by growing all the ordinary known forms of the iris, and then he sought to get new types, or to bring back old ones, obtaining them from the various parts of the world where the plants grow. In this work he was very much helped by the late Dr. Regel of St. Petersburg, who was able to import a large number of plants from Central Asia, and by Max Leichtlin of Baden-Baden, and others. Subsequently he received a great deal of assistance from missionaries, especially the Americans in Asia Minor. Sir Michael got into correspondence with them, and they sent him a large number of plants, some of which proved to be new. He continued to rely upon the missionaries until the leading firms of nurserymen sent their travellers into these regions. Experiments were first made with the common bearded iris. An *Iris variegata* was crossed with *I. pallida*. From that cross Sir Michael Foster obtained 200 or more seedlings, which comprised among them many of the old garden forms, often spoken of as German irises, such as *I. neglecta amœna* and the like. Among the newer ones was a variety which afterwards became very popular under the name of Mrs. Horace Darwin.

SOME DEVELOPMENTS OF THE IRIS.

Out of the light blue *Iris cengialti*, crossed with the pollen of *I. Balkana* (a bronze-purple) Sir Michael Foster obtained about 18 seedlings of varied colors, not only light blue and deep purple, but pure white and several shades of yellow, as well as mixed tints were included. From an early period this noted hybridizer paid attention to the *oncocyclus* irises. The true *oncocyclus* irises have been crossed with the *regelia* section, such as *I. Korolkowi*, and some striking tints have been secured. Interesting crosses were also made between the *oncocyclus* and the *regelia* irises with the *rhizomatous* irises. *I. iberica*, crossed with the pollen of *I. pallida*, and *I. pallida* crossed with the pollen of *iberica* produced some very attractive forms. Another success was the cross between *I. Lortei* and *I. pallida*. The hybrids between *oncocyclus* and *rhizomatous* irises were found to be very sterile, so that in most cases it was not possible to go beyond the first generation. Sir Michael raised several interesting hybrids of *I. reticulata*, but these were lost through fungous disease, but he was more fortunate with *I. xiphium*. Some beautiful hybrids of this section were crossed with *I. filifolia*, and a *xiphium* was crossed with *I. tingitana*. Some useful work was also done in the *Juno* section. It will thus be seen that the deceased scientist had benefited horticulture considerably by his hybridizing work.

W. H. Adsett.

SAVE your weekly copies of this paper. DON'T throw them away. The contents are always of PERMANENT VALUE and you may need them for reference tomorrow, a year from tomorrow, or still later.

HORTICULTURE

VOL. V

MARCH 2, 1907

NO. 9

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 05.

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;

six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass. under the Act of Congress of March 3, 1879.

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SPECIAL ROSE NUMBER NEXT WEEK
Colored Plate—H. T. Rose Dean Hole

To
memory
dear

Referring to the articles in our two last issues on James Nichol and William Christie we have received much appreciative comment thereon. It is well that HORTICULTURE should speak a word of tribute in the passing of this class of men and the greenhouses in which they delighted—Marechal Niel roses and bougainvilleas trained to the roof, an abutelon here, an orchid or an amaryllis there. When once abandoned these houses are never duplicated and most of them have already disappeared but they filled their place in the history of horticulture in New England and a line of commendation for the sturdy pioneer work performed by the men who conducted them is only a just due.

A just cause
for criticism

It is much to be regretted that the practice of "camp following" should become so flagrant in connection with the meetings of any society as to necessitate the rebuke voiced by our seed trade correspondent in his notes in this issue, on the canners' convention. One finds it hard to believe that any man with any pretensions to dignity would, for the saving of the membership fee in a society and the desire to get something for nothing so far forget his self-respect as to scheme to participate, unbidden, in the enjoyment of hospitalities to which he has no right, yet it is by no means an uncommon thing and there are few, if any, conventions where more or less of this imposition does not exist, in defiance of all efforts to thwart it.

A promising
plan for
home improvement

The plan proposed by the Madison, Wis., Horticultural Society to induce general co-operation on the part of the people of the city in an effort to adorn and beautify their city, as described in another part of this paper, is a very commendable one beginning as it does at what may be called the kindergarten stage of home improvement. Unfortunately many of the well-meant efforts of town improvement associations are over-ambitious and too costly to secure at once the cheerful participation of the people whose benefit and refinement is most directly sought. Artistic horticultural appreciation is a plant which requires time for growth and which at first will respond more readily to the sweet alyssum and nasturtium influence than to the more advanced ideas of lawn and border embellishment. Under the stimulus of local rivalry advancement will proceed with rapid stride and each successive year will see progress toward higher ideals and a better estimation of what is fit. The transition from untidiness and neglect to neighborhood orderliness and elegance depends much upon good example. It is remarkable how widespread is the influence of one neat garden upon the surrounding community.

Encourage
organization

The promoters of the Society of Southern Florists and Ornamental Horticulturists seem to have made good their promise of a useful meeting at the first convening of the young society. The attendance was not what it should have been but that was not the society's fault; it was only another demonstration of the unwillingness of those engaged in horticultural pursuits to take hold and assist in any organized movement the object of which is the general good. We are in full sympathy with the aims and purposes of this society as announced. Some well-meaning persons think they see in the multiplicity of these local and special societies inroads upon the well-being of the S. A. F. We have never felt any solicitude in that direction. Rather would we encourage them as helpful adjuncts to the great national organization which by wise and comprehensive policies on the part of the latter may be enlisted as efficient aids in the furtherance of the objects for which it was founded. While the result of an efficient organization in the south may, by the fostering of home industry, curtail in time the purchasing of certain specialties hitherto supplied only by northern growers, yet the developing of the horticultural possibilities of our vast southern lands cannot but benefit every section of the country and there is no question but that much of the material for which money is now sent abroad might be produced here in equal quality and at competing cost.

NEWS OF THE CLUBS AND SOCIETIES

SOCIETY OF SOUTHERN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

The first annual convention of this society was held in New Orleans, La., on February 14, 15, 16, 1907, with about forty local members in attendance. The program was as follows:

Opening Session. Thursday, February 14—Address of welcome, Mayor Behrman; Response, Prof. Stubbs; President's address; Discussion of president's address; Reading of the constitution and by-laws of the society as adopted at Chattanooga; Treasurer's report; Executive business; Essay, Chrysanthemum-growing in the south, F. P. Davis, Mobile, Ala.; Question box.

Evening Session. Thursday, February 14th—Selection of meeting place for next convention; nomination of officers for ensuing year; Essay, profitable orchids for the florist, J. A. Newsham, New Orleans; President's reception.

Morning Session. Friday, February 15th—Question box; Unfinished business; Essay, packing, shipping and express rates, C. W. Eichling, New Orleans; Essay, roses under glass in the south, R. Lockerbie, New Orleans.

Evening Session. Friday, February 15th—Balloting for officers; Unfinished business; Essay, what the south can grow for northern markets, W. B. Wichers, Gretna, La.; Essay, with lantern slides, Prof. Barnett; Value of laws and regulations for controlling spread of insects and plant diseases, Prof. A. A. Rosenfeld; Question box.

Morning Session. Saturday, February 16th—Question box; Unfinished business; Essay, experience with Carnations in Alabama, W. B. Patterson, Jr., Montgomery, Ala.; Essay, gardening in the public schools, Prof. Caldwell, Nachitoches, La.; Essay, needs of the retail trade, C. Eble, New Orleans.

Evening Session. Saturday, February 16th—Grand banquet to visiting members of the society.

Owing to the absence of the president, R. C. Berckmans, Vice-President C. W. Eichling presided. Paul Abele, secretary, Joseph Steckler, treasurer, were in attendance, also the following visitors:

Mr. Patterson of Montgomery, Ala., Mr. Stoddard representing Caldwell the Woodsman, Evergreen, Ala., Mr. Kroeschell of Kroeschell Bros. Co., Chicago, Wm. Hagemann of New York, C. D. Otis, Lake Charles, La., C. L. Lieber of Pontchoula, La., Mr. Rosenfeld of Baton Rouge, La., and Mr. Galvan of Uniontown, Pa. While the attendance from outside the State did not meet the expectations of the local florists, the enthusiasm of those in attendance gives every promise of making the association a permanent institution.

The program as published herewith was fully carried out, and the essays read and discussed were of exceptional merit.

The following made very creditable exhibits and received certificates of merit:

J. Steckler Seed Co.: Seed and vegetables; special mention for Creole Corn. S. Nosaka & Son: Wire garden stands and frames. Abele Bros.:

Greenhouse and bedding plants. C. W. Eichling: *Adiantum hybridum* and *magnificum*. Chas. Eble: Hardy palms and shrubs. J. A. Newsham: Greenhouse and foliage plants; especial mention for *araucarias*, *dracaenas* and pair of magnificent *Cocos australis*. B. M. Wichers & Co. of Gretna, La.: Exhibit of var. *Nephrolepis* and especial mention for N. Whitman; both specimens. M. Cook & Son: Exhibit of sweet olives. Paducah Pottery Co., Paducah, Ky.: Exhibit of pottery. N. B. Patterson of Montgomery, Ala.: Exhibit of carnations.

The following received honorable mention: Kroeschell Bros. Company, Chicago, greenhouse boiler and Ideal wrench. U. J. Virgin, roses; Caldwell the Woodsman and Geo. R. Carter of Evergreen, Ala., exhibits of evergreens and smilax.

The committee on awards consisted of R. Lockerbie, Ed. Baker and Chas. R. Panter. R. Lockerbie was the chairman of arrangement committee, Chas. Eble of the badge committee, Ed. Baker of the exhibit committee and Chas. R. Panter superintendent of exhibition hall. The following were elected as officers for the ensuing year: President, J. A. Newsham; first vice-president, F. P. Davis, Mobile, Ala.; second vice-president, N. P. Patterson, Montgomery, Ala.; secretary, Paul Abele, New Orleans, La.; treasurer, J. Steckler, of Steckler Seed Co., New Orleans, La.; executive committee, Ed. Baker, C. R. Panter, R. Lockerbie, and E. H. R. Green of Dallas, Texas.

The banquet was presided over by Otto Abele, president of the New Orleans society, who, after the banquet had been served delegated C. R. Panter to act as toastmaster. The first speaker called on by Mr. Panter was C. W. Eichling, who bespoke a welcome to the visiting members of the society and urged that every effort be made to make the new southern society a success.

J. F. C. Waldo, assistant city attorney, especially delegated to represent Mayor Martin Behrman, spoke to the members present, praising them for the good work they had done in making such a creditable exhibit and wishing the new association much success.

R. Lockerbie, one of the members of the entertainment committee, spoke next. He was followed by Ed. Baker, one of the oldest members of the New Orleans society and P. A. Chopin. President-elect J. A. Newsham came next. He told of his hopes regarding the work of the society and promised to do his utmost to make the organization a great success. W. B. Patterson, Jr., of Montgomery, Ala., one of the visiting members spoke on behalf of the visiting delegation, thanking the New Orleans men for their hospitable entertainment. Paul Abele, the newly elected secretary, spoke for the officers of the southern association, being followed by John Eble, Joseph Steckler, Chas. Eble and several others.

The hall and tables were artistically decorated with wild smilax from Evergreen, Ala., carnations from Montgomery, Ala., ferns, roses and palms from New Orleans, by C. W. Eichling and H. Cook.

ST. LOUIS HORTICULTURAL SOCIETY.

On Tuesday afternoon, February 19th, the executive committee of the St. Louis Horticultural Society held their regular monthly meeting at the Hamilton Hotel. After routine business, 19 new members were enrolled. The spring flower-show committee made their report, and after a few minor changes the following rules and premium schedule were approved and adopted:

RULES.

1. Competition open to all.
2. All entries must be in the hands of the Secretary by March 4th.
3. All exhibits must be in place by 12 o'clock noon, March 5th.
4. Out of town exhibits will be staged by the Society, if desired.
5. Exhibition cards shall not exceed 7x10 inches.
6. No exhibit shall be removed from the hall without consent of the Secretary.

Class.	Prizes.	
	1st	2nd
1 Collection of plants in bloom.	\$10.00	\$5.00
2 " " bulbous plants in bloom, accessories admissible	8.00	4.00
3 Fifty foliage and blooming plants	10.00	6.00
4 Six foliage or blooming plants exhibited by amateur	5.00	
5 Specimen plant.....	3.00	
6 " " blooming plant..	6.00	
7 Six blooming Lily plants (Harrisii or Longiflorum) ..	6.00	3.00
8 Display of Lily of the Valley	5.00	
9 " " " Pansies.....	3.00	
10 " " " Violets.....	3.00	
11 " " " bulbous flowers..	5.00	
12 Five vases of carnation blooms, 5 varieties, 25 in each vase.....	5.00	3.00
13 Vase of 50 white carnations.	2.00	
14 " " 50 light pink.....	2.00	
15 " " 50 dark pink.....	2.00	
16 " " 50 red.....	2.00	
17 " " 50 variegated	2.00	
18 " " 50 any other color.	2.00	
19 four vases of roses, in 4 varieties, 25 in each vase.	10.00	
20 Vase of 25 pink roses.....	4.00	
21 " " 25 white	4.00	
22 " " 25 red	4.00	
23 " " 25 any other color..	4.00	
24 " " 25 American Beauties	15.00	
25 Floral basket.....	12.00	8.00
26 Vase of flowers arranged for effect	10.00	6.00

The spring flower show will be held in the Masonic Temple hall, where a successful show was held some years back. In addition to the regular exhibits, some of the most prominent florists will make up booths and exhibit attractions in floral art. Professor Dillwyn M. Hazlett has been engaged to give illustrated lectures, which fact alone should attract immense attention. Moreover, the committee is still working hard; in fact, they realize that there will be little time for rest until after the show, and as this will be a show given by and for the upper set, it must present something worthy of the attention of those who are invited as well as creditable to the society under whose auspices it is held. Entries or letters of information should be addressed to the undersigned.

OTTO G. KOENIG, Secretary.

ALABAMA STATE HORTICULTURAL SOCIETY.

The fourth annual meeting of the Alabama State Horticultural Society convened February 6 at 11 o'clock at the New Exchange Hotel, and was marked by an unusually large attendance of members of the society and friends.

The morning session was taken up with the address of welcome by Judge E. F. Baber, city recorder, who took the place of Mayor Teague on the programme; the annual address of President W. F. Heikes; the report of R. S. Mackintosh, secretary of the society, and several fine papers and addresses by members of the society and members of the Montgomery Flower Growers' Association on the subject of horticulture and floriculture.

In his address of welcome, Judge Baber said he had been commissioned by the mayor to extend to the members of the society and their friends, in the name of the mayor and citizens of Montgomery, a most hearty greeting and a cordial welcome to Alabama's capital city. He said it was an esteemed privilege which the city enjoyed to entertain a society which represents the sum total of the knowledge of the best and highest in every branch of horticulture and floriculture.

To the address of welcome, Prof. J. F. Duggar, director of the agricultural station at Auburn, responded in a few words, saying it was well and fitting the annual meeting of the association be held at Montgomery at this time, as it was at this place the first regular meeting was held four years ago, and the meeting this year is designed to show by report and by increased membership and large attendance that the organization has proven all its promoters hoped and expected.

The address of President Heikes was comprehensive, touching on every branch of horticultural industry, giving valuable information concerning the aims and objects of the organization and presenting useful and reliable facts and figures of practical and commercial value bearing upon the horticultural and agricultural interests in the state.

Miss E. C. Andrews gave an interesting and instructive address on "Native Shrubs."

Prof. Hugh N. Starnes of the Experiment Station of Georgia made an able address on "Street Shading." He advocated municipal control of trees planted for street shading in cities and towns. He said in the planting and cultivating of shade trees in cities there is a greater return for the smallest expenditure of time and money than it is possible to obtain in any other way, for after the trees have once been planted, nature steps in and finishes the work. He spoke of a number of cities remarkable for beautiful street shading, where the municipality have the matter in charge. From a practical and scientific standpoint, it is to the interest of the city that the matter of planting trees for street shading should not be left to the individual.

He gave a list of trees most satisfactory for street planting, including the elm, the willow oak and the water oak. These last, because of slow growth for the first fifteen years, are

not commended for general use, and for that reason are not handled extensively by nurserymen. The European sycamore was also mentioned as good for street planting, as were the silver maple, the Carolina poplar for narrow streets, the swamp chestnut oak as a shapely side tree, and for the extreme South the Magnolia grandiflora has no rival. There is no lack of material from which to draw in the matter of tree planting, but local environment must be the first and last consideration every time.

He said he recognized it is a hard matter, even in this day of progress and advancement, to inaugurate innovations, but in the matter of street shading everything possible should be done to agitate the subject and get the work started, and it would be found the ends would justify the means. He dwelt at great length upon the actual process of planting trees and of providing for the protection against boys and beasts.

The report of the secretary, Prof. Mackintosh, was read, showing the society in a strong condition financially, and having a considerable growth in membership during the past year.

The discussion of subjects interesting to the horticulturist and the agriculturalist were continued in the afternoon session. Papers were read by Prof. W. T. Clarke of Auburn on the "Relation of Entomology to the Horticulture of the State;" by D. C. Turnipseed of Flora on "Methods of Cultivating Orchards;" on "Selection," by A. J. Miller of Evergreen, and on "Our Canning Factory," by R. W. Barnes of Selma.

Of these papers, Mr. Turnipseed's was a treatment of the subject of planting orchards from a practical standpoint, and from his experience of the best means and methods of cultivation of an orchard.

The paper of Professor Clarke of Auburn was a more scientific treatment of the same subject, in which he gave much information to those among his auditors who were interested in the planting of orchards. In both papers the subjects of insect pests and diseases of trees and shrubs were treated exhaustively. Professor Duggar of Auburn made an interesting report of the committee appointed at the last meeting of the society for the investigation of the subject of forestry in the State.

AMERICAN ROSE SOCIETY.

The executive committee of the American Rose Society have been favored with more prizes for the coming Washington Show, one of \$25, for Killarney offered by ex-President Fred R. Newbold of Poughkeepsie and one of \$25, for Uncle John by L. A. Noe of Madison, N. J.

An addition to the schedule of the Washington Florists' Club is a prize of \$25 for a group of decorative plants covering at least one hundred square feet of floor space, offered by Wm. H. Ernest of Washington.

A special report of the Society's doings, with the Constitution and By-laws and a chapter on Garden Roses, of much interest to amateur growers embraced therein has been prepared, and the booklet is being mailed to all members of the Society, also a number of them to the general public.

BENJAMIN HAMMOND, Sec'y.

TORONTO GARDENERS' AND FLORISTS' ASSOCIATION.

At the regular meeting held Feb. 19 a large number of members were present, with A. Houle, the first vice-president, in the chair. T. Martin presented the report of his committee, who managed the hall at the recent carnation exhibition, and the secretary read a letter from the New York Florists' Club, tendering a hearty vote of thanks for the courtesies rendered its members while on their visit to this city; also one from J. Austin Shaw, expressing similar sentiments.

The secretary brought up the protest of the F. R. Pierson Co., and after a lot of discussion was instructed to procure for the March meeting samples of Excelsior and Dark Pink Enchantress, and the committee will then try to arrive at a definite decision.

Mr. E. Graham gave the members a very interesting half-hour talk on chrysanthemum growing, treating mostly of exhibition blooms, which he himself is very successful with.

Mr. F. Goode read a paper on the culture of grapes under glass, commercially, and predicted that the time was not far distant when it would be carried on on a very large scale in this vicinity to supply the fast increasing demand, and stated that at fifty cents per pound as an average, there was money in it. His paper was most thorough, and was much enjoyed by those present, a number of the members taking part in the discussion which followed. A hearty vote of thanks was tendered both gentlemen for their papers.

The next regular meeting, March 19, will be a social and ladies' night.

MADISON, WIS., HORTICULTURAL SOCIETY.

The Madison Horticultural Society, through its secretary, Emil T. Mische, offers the people of the city young plants for garden adornment free to those who pay the annual membership fee of \$1.00. It has been arranged that later in the season the daily papers are to print a series of articles prepared by experienced people, telling how to prepare the ground for planting, how to plant and how to care for the plants, also a series of illustrated articles showing the improvement possible by the use of these plants, and in the summer a public exhibition will be held in affiliation with the State Horticultural Society, where special prizes will be awarded for flowers grown on the plants distributed this spring. Prizes for improvement of grounds are also contemplated, for which classes have been designated as follows: 1. Greatest improvement of home estate, city lot size. 2. Most beautiful home, city lot size. 3. Most beautiful city block. 4. Most beautiful street. 5. Most meritorious improvement of any sort. Full specifications of the points to be considered in making awards in each class are given in the schedule copies of which may be had on application to Secretary E. T. Mische, City Hall, Madison, Wis. There are four different collections of plants, either of which may be selected by the applicant, each containing about one hundred plants of such things as asters, calendulas, marigolds, nasturtiums, zinnias, morning glories, cannas, dahlias, gladioli, delphiniums, gaillardias, etc.

ANNUAL DINNER OF THE NEW YORK FLORISTS' CLUB.

This annually recurring event took place at the Hotel St. Denis on Saturday night, February 24, according to established usage. Be it known that Saturday night is always selected because the next day is Sunday and after such a strenuous affair as the New York dinner a day of rest is expedient. The attendance was upwards of fifty and the chair was acceptably filled by president Totty and Patrick O'Mara was toastmaster. The decorations of the room were most elegant, among the donations for this purpose being orchids and orchid boutonniers from Lager & Hurrell, Alma Ward carnations from C. W. Ward, Welcome from Dailedouze Bros., Winsor in large quantity from F. R. Pierson Company and daffodils from John Young. Ex-president Walter F. Sheridan introduced toastmaster O'Mara after the substantial repast had been put out of sight. Mr. O'Mara's address was in that gentleman's best form, touching on the fine phases of the horticulturists' profession and counseling loyalty to the Club and to the National Society. In calling upon president Totty to speak for the club the toastmaster paid a fine tribute to that gentleman. Mr. Totty spoke briefly pledging his best efforts to the interests of the organization and its members. The toast to the S. A. F. was responded to by J. C. Vaughan, one of the ex-presidents of that society. He dilated on the wonderful development of the cut flower industry during the past twenty years and urged that an active interest be taken by New York florists in the National flower show projected for next year in Chicago. "Estate development and the private gardeners" was the topic next in order, responded to by Harry Turner who told of the great possibilities in garden development backed by unlimited funds and merited confidence in the gardener.

The star speaker of the evening, senator James F. Minton of New Jersey, was then introduced and made a most delightful address, replete with wit, sentiment and poetic historical lore. He characterized agriculture as the basis of the strength of the nation and enlarged on the delight of rural life, the attractions and beneficial influences of the suburban or country home, and the revivifying power of a life close to nature. The effect was inspiring and at the close the eloquent speaker was accorded a rising vote of thanks amid vociferous cheering. Later in the evening he held an informal reception each guest being presented to him in turn by his friend Mr. O'Mara.

Other topics and the speakers who discoursed wittily and instructively on them were as follows: Memories of the Florists' Club, by Walter F. Sheridan; The Work of the Horticultural Explorer, by John E. Lager; Exhibitions as Educators, by John Birnie; The Horticultural Press, by S. S. Butterfield, and The Ladies, by J. Austin Shaw.

Votes of thanks were accorded to the toastmaster and the donors of flowers. During the session music was discussed by a fine orchestra and there were songs by Mr. Wade, stories by Jack McDonald, Scotch songs in the vernacular by John Birnie and Robert

E. Berry and a German song in New Jersey style by R. M. Schultz. It was after 1 A. M. when the party broke up, all satisfied that the N. Y. club never had a more glorious time.

DOBBS FERRY HORTICULTURAL ASSOCIATION.

The regular meeting of this association was held in their room in Odd Fellows' Hall on February 23, Robert Boreham in the chair. The prizes for the best display of cut flowers were awarded to J. Bradley, gardener to H. Sidenburg, Hastings-on-Hudson, Claude Wilson, Dobbs Ferry, second. H. Kastberg, gardener to the Misses Masters also staged a fine collection and was awarded a cultural certificate for some very fine seedling amaryllises. H. Keiling, gardener to Mr. S. McComb, was awarded a cultural certificate for some of the finest roses it has been our pleasure to see. This proved to be one of the finest displays of cut flowers the association has had. Messrs. Jas. T. Scott, S. Bradley and W. Preston were the judges.

Mr. J. Bradley read a paper on the culture of cyclamens and was accorded a hearty vote of thanks. He staged some blooms of a handsome double flowered cyclamen. Jas. T. Scott told of the different methods used in the treatment of cyclamens which he had seen in his travels through the country and was very interesting and instructive. Foliage plants in not larger than 8 in. pots are the special subjects for the next exhibition.

ELBERON HORTICULTURAL SOCIETY.

The regular meeting of this society was held on February 18th with president Robertson in the chair and a large attendance. James Kennedy, superintendent for G. W. Young read a very interesting and instructive paper on outdoor roses.

The exhibition table was covered with cut flowers, and it was conceded by all that it was the finest display of flowers that has yet been staged at the meetings. The exhibitors were P. Murray with vase of freesia, Purity; W. D. Robertson, gardenias; A. Bauer, stocks, Beauty of Nice and Carnation Victory; A. Greib, violets Princess of Wales; H. Wood callas; F. Dettlinger, California violets; J. Kennedy, tulips Pottebaker yellow; E. Petzel, white carnations and W. Swain collection of cut flowers. W. Kennedy of Redbank showed a vase of a seedling carnation.

ROSE NIGHT AT PHILADELPHIA.

Mr. P. Joseph Lynch, secretary and treasurer of the Dingee and Conard Company, West Grove, Pa., will deliver a paper on "Rose Plants by Mail" at the next regular meeting of the Florists' Club of Philadelphia, to be held Tuesday evening, March 5, 1907, and in connection therewith it was decided to invite an exhibition of rose novelties on same evening. Those having meritorious novelties, if it is not possible to bring them personally, will please send them by express prepaid, care of Mr. David Rust, Horticultural Hall, Broad street, Philadelphia, time enough so that they will be sure to reach their destination before the meeting is called to order, so as to give all those interested ample opportunity to examine same thoroughly.

EDWIN LONSDALE.

ILLINOIS STATE FLORISTS' ASSOCIATION.

The second annual convention of this body took place at Bloomington on February 19th and 20th, about seventy-five members being in attendance. President J. F. Ammann called the meeting to order at 3 p. m. Wednesday, and H. H. Green made the address of welcome to the visitors. W. N. Rudd responded telling briefly of the enormous growth of the flower trade in recent years. The president's address followed. It was a business-like paper and was well received.

In the evening a banquet was tendered the Association by the Bloomington Florists' Club. W. N. Rudd acted as toastmaster. Addresses were made as follows:

The State Society and Its Object—S. E. Beal, Urbana.

Our Hoosier Neighbors—J. D. Carmody, Evansville, Ind.

The Sunny Side of the Florist's Business—Edward Gullett, Lincoln.

Trials of a Retailer—Albert T. Hey, Springfield.

Why Isn't a Florist as Good as Any Other Man—P. J. Foley, Chicago.

Florists' Clubs—P. J. Hauswirth, Chicago.

At the session on Wednesday morning an interesting and instructive program was presented. Prof. A. C. Beal, of the University of Illinois, spoke of the work in floriculture at the university. H. Hasselbing, of the University of Chicago, spoke on "The Effect of Light and Shade on Plants." W. N. Rudd told of some of the things that he had seen at the carnation show in Toronto, after which Prof. Blair, of the University of Illinois, spoke of the florist trade in Illinois and gave some figures as to its extent.

Officers were elected as follows: President, Albert T. Hey, Springfield; secretary, A. C. Beal, University of Illinois; treasurer, George A. Kuhl, Pekin; first vice-president, J. F. Ammann, Edwardsville; second do., Wilbur Gullett, Lincoln; third do., Charles Loveridge, Peoria; fourth do., William Heintz, Jacksonville; fifth do., August Poehlmann, Morton Grove; sixth do., H. Hasselbing, Chicago; seventh do., Dr. A. S. Halstead, Belleville.

The meeting was closed with an address by the president, in which he reviewed the present meeting and told of some of the things which he expected the association to accomplish in the future. Resolutions of sympathy were passed for the death of the first president of the association, the late James Hartshorne of Joliet. J. D. Carmody, of Evansville, Ind., was made an honorary member of the association. The next meeting will be held in Springfield.

The exhibition in connection with the meeting was also a great success. One of the most notable features was the large attendance during the evening when the show was open to the public, the hall being packed with people most of the time and the interest manifest in the florists' material being remarkable. The exhibits of cut flowers were exceptionally fine. Those who had exhibits were as follows:

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dall, Chicago; E. F. Winterson Co., Chicago; Iona Pottery Company, Iona, Mich.; J. W. Sefton Manufacturing Company, Chicago; Vaughan Seed Store, Chicago; George A. Kuhl, Pekin; George Keller & Son, Chicago; A. Dietsch Co., Chicago; George M. Garland Co., Des Plaines; the Advance Co., Richmond, Ind.

Cut flowers—Peter Reinberg, Chicago; Bassett & Washburn, Hinsdale; B. K. & B. Floral Co., Richmond, Ind.; E. G. Hill Co., Richmond, Ind.; W. H. Gullett & Sons, Lincoln; El Paso Carnation Co., El Paso; Henry Baer, Peoria; John E. Haines, Bethlehem, Pa.; Swan Peterson Co., Gibson City; F. Dorner & Sons, Lafayette, Ind.; Chicago Carnation Co., Joliet; Bauer & Smith, Indianapolis, Ind.; Brant & Noe, Chicago.

NASSAU COUNTY HORTICULTURAL SOCIETY.

There was a large attendance of members at the monthly meeting on February 23, and seven new names were nominated for active membership. The special prize for twelve carnations arranged for effect was won by Valentine Cleves. In the "point" competition Wm. Eccles received 85 with Lawson carnation, Thos. Harrison 84 with Phoenix Roebelini, A. MacKenzie 84 with mignonette, A. Jarache 79 with lily of the valley and H. Metz 76 with double violets. Felix Mense was awarded the Society's certificate for Princess of Wales violet. A large collection of carnations was staged by Chas. Bertanzel for which he received honorable mention.

A. Jarache gave an interesting talk on Phoenix Roebelini. F. R. Pierson Co. of Tarrytown have offered a \$25.00 silver cup for best 25 Winsor carnations to be competed for at the coming fall exhibition. J. Ingram, S. J. Treppess and J. Everitt are the judges at the monthly exhibition.

DETROIT FLORIST CLUB.

This club for once abstained from its learned discussions and devoted meeting night to a social and dance. Thanks to the efficiency of the entertainment committee, whose general is Wm. B. Brown, the affair was a great success and immensely enjoyed by all. Music, recitations, card playing and dancing kept old and young until long past midnight.

CLUB AND SOCIETY NOTES.

Mrs. H. B. Fullerton gave an illustrated lecture on "Beauty and Utility in the Home Plot" before the American Institute of New York on February 27.

J. Ivera Donlan entertained the Tarrytown (N. Y.) Horticultural Society on Tuesday evening, February 26, with a talk on the artistic arrangement of flowers and plants.

The Tri-City Florists' Association met with Wm. Knees of Moline, Ia., on

February 14. After a discussion on the care of hot beds, Messrs. Arp of Davenport, Steep of Rock Island and Knees of Moline were appointed a committee to arrange for the annual banquet in March.

The next regular monthly meeting of the Washington Florists' Club and their annual election of officers takes place on March 5th, at 8 P. M., at Gudes' Hall, 1214 T St., N. W., where we will be very glad to see any of our out of town brother tradesmen who happen to be in Washington at that time.

The Western Horticultural Society held a meeting at Winnipeg, Man., on February 12, with interesting papers and discussions. The attendance was small but it is hoped by working through the schools an interest in horticulture may be developed and maintained.

The lectures at Horticultural Hall, Boston, for the remainder of the season will be "Planting for Streets and Waysides," by J. A. Pettigrew, on March 2; "Some Bacterial Diseases of Plants, Their Nature and Treatment," by Prof. H. H. Whetzel, on March 9; "Gardens of Italy," by J. K. M. L. Farquhar, on March 30.

A committee of the Illinois Florists' Association composed of J. F. Ammann, P. J. Hauswirth and J. C. Vaughan, and Prof. A. C. Beal were in Springfield recently in the interests of a bill calling for an appropriation of \$10,000 for the investigation of insects and diseases affecting hothouse plants, at the experiment station.

OBITUARY.

Ferdinand Tschupp.

Ferdinand Tschupp died at his residence in North Bergen, N. J., on February 24, aged 66 years. Mr. Tschupp was born in Alsace (Germany). On first coming to this country, in 1863, he worked for his brother, the late John Tschupp of Weavertown Road, West Hoboken, for about one year, after which he spent about four years in the employ of Mr. Hauser, an old-time florist on Third Avenue, New York. He then went to North Bergen and started in business for himself, at first in a small way, adding to his place as his means increased and making a pronounced success from the beginning. He acquired extensive real estate interests in his adopted town where he was prominent in Masonic circles and served as treasurer of Palisades Lodge for the past fourteen years. His specialty was hybrid perpetual roses and his Jacq's grown in the old-fashioned way have enjoyed a wide reputation in New York markets.

Mr. Tschupp is universally spoken of as one of the most conscientious, industrious, and unassuming men connected with the horticultural profession, a man of highest integrity, a reliable friend, and a good father to

his family. He leaves a wife and six children—three sons and three daughters—all married except two.

Charles Zarembo.

Charles Zarembo, aged 68 years, for many years a resident of Church Lane, New Durham, North Bergen, died suddenly on February 18. He had been about the house when he was suddenly attacked and expired before a doctor arrived. While his death was unexpected, he had been under the care of a physician for heart trouble for some time. The funeral took place on Thursday, February 21. Mr. Zarembo was a Russian by birth. He was engaged in the florist business in Church Lane for 35 years, his specialty being chrysanthemums and geraniums.

C. F. W. Gentemann.

C. F. W. Gentemann of Quincy, Ill., died on February 16 at Miami, Fla., where he has been accustomed to pass his winters for his health. Mr. Gentemann was born in Germany on March 15, 1837, and has resided in Quincy since 1852. He established there a successful business which he turned over to his sons Herman and Philip, and daughter Minnie, five years ago. Besides these another daughter and his wife survive him. Mr. Gentemann has been a member of the Society of American Florists for many years.

Other Deaths.

J. C. Good of Tiffin, O., died on January 29 at the age of 57.

The wife of W. P. Peirce of New Bedford, Mass., died on February 25.

John Casey, for the last 25 years gardener for the late A. J. Cassatt, died at Haverford, Pa., on February 21, aged 70.

Wm. A. Bruce formerly employed in the seed store of Peter Henderson & Co., and with J. M. Thorburn & Co., died in Jersey City, N. J., on February 12.

Mrs. Nicholson, wife of W. R. Nicholson of Framingham, Mass., died on February 18. The marriage of these young people took place only about a year ago and much sympathy is felt for Mr. Nicholson in his sad bereavement.

A CORRECTION.

Several communications in this issue which have the appearance of being somewhat tardy are so because they failed to connect with last week's issue which went to press one day ahead of regular time on account of the holiday, February 22. One result of the unavoidable haste thus caused was a number of inaccuracies which escaped the proofreader's eye, including a misplaced signature whereby the excellent notes on rose propagation were wrongly credited to J. F. Johnston instead of to their author, J. E. Simpson.

Nature's Two Unique and Wonderful "New Creations" in Bush Limas!

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Look at the illustrations shown of the BURPEE-IMPROVED and FORDHOOK BUSH LIMAS, recall to mind the largest and best pods of Lima Beans you have ever seen, and you must agree with us that this is a **most remarkable find**. To learn just what they really are and how they were discovered, kindly study *pages 10 to 15 of THE FARM ANNUAL FOR 1907*. These two most unique new Bush Limas will be worth many thousands of dollars annually to the gardeners of America. They are undoubtedly the "*Greatest Novelties of the Age*."

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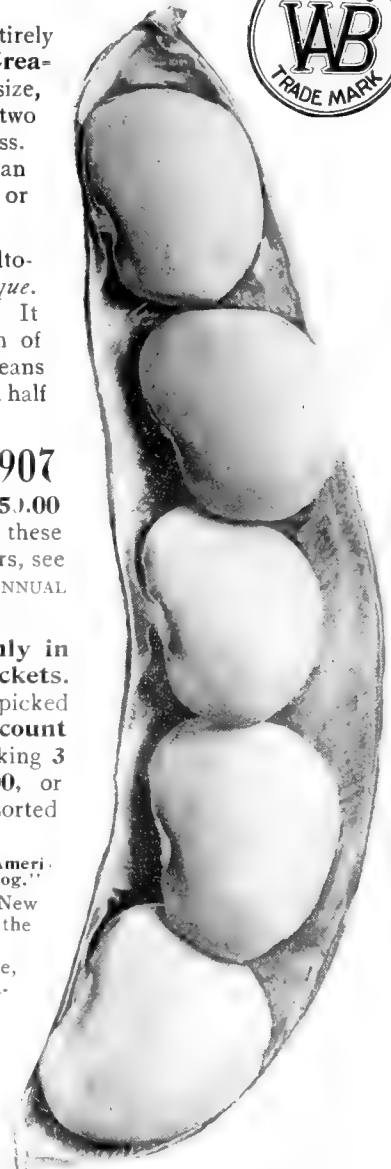
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SEED TRADE

The Canners' Convention of 1907 has passed into history, and in point of attendance—fully 2500 persons including ladies being present—the machinery and other exhibits, also the social and entertainment features, it easily surpasses any previous convention.

Each succeeding convention seems to excel the preceding one and it is not safe to say when the limit will be reached, though several times during the past week prominent members of the canners and machinery men's association were heard to say it was becoming so large as to be unwieldy. It has not got out of hand yet, however, as the excellent management of the one just closed amply demonstrates. But for one unfortunate incident just at the close which may be passed over without further comment, everything was worked out smoothly according to program, and the local committee which had immediate charge deserve generous praise.

Dr. Wiley, chief of the bureau of chemistry of the Department of Agriculture, and designated by Sec'y Wilson as head of the commission appointed by him to supervise enforcement of the national pure food law, was present as a guest of the convention, and discussed in a clear and entertaining manner, the regulations worked out by his committee. The Dr. had an attentive and interested audience, and was deeply gratified to find the packers as a body so ready and willing to co-operate with him. It certainly is pleasing to note the readiness and in fact the eagerness of the leading packers to comply with the requirements of this law. All express warm approval of its principles, even though they may criticize some of its details because they consider them unworkable. However, when all parties approach a question in a spirit of honesty and fairness, there is seldom a failure to reach an agreement mutually satisfactory.

An informal vote as to the place for the next convention was taken, and Denver received the largest number of votes. This is simply a straw however, and does not necessarily mean that Denver will be chosen.

The inquiry for spot seed peas was less active than many expected, and as it was mainly for the sweet or wrinkled sorts, which are scarcely procurable at any price, but little business was done.

Two important causes have combined to save the situation for the canners in the matter of canned peas another year. One is the difficulty of securing seed of the right varieties and the other of getting viners. If viners were easily procurable and seed abundant, the market would beyond doubt be glutted much as it is at the present time with canned corn. There has been quite an active demand for tomato seed, but only a moderate demand for corn.

The seed trade furnished the usual number of curb brokers at the convention and there was the usual criticism from the members of the machinery and supply men's association, who practically demand that those seedsmen who are members of the association should move against their competitors who are not, but who persist in hanging around like camp followers, attending banquets, theatres, and in fact any function furnished by the association which costs them nothing, and dead-heading everywhere. This is all the more annoying to seedsmen who are members of the association, as only those in their line of business are guilty of dead-heading.

It would seem that if these persons had any pride or sense of propriety they would join the association or remain away.

The board of general appraisers at New York have reaffirmed previous rulings based upon the decision of the Circuit Court of Appeals, that duty must be paid upon onions on the basis of a standard weight of 57 pounds per bushel.

It is reported that a Rochester seed firm has leased about ninety acres of the Aughter farm in South Greece, N. Y., and a third of the land will be planted to asters. The erection of greenhouses will follow. James E. Gott has been appointed foreman.

James B. Kidd has been appointed examiner of plants, seeds, bulbs, etc., at the port of New York. Every importer of such goods—in fact everybody engaged in commercial horticulture throughout the United States will be more than pleased over this wise appointment. Mr. Kidd assumes his new duties on March 1 with the sincere congratulations of a host of friends who appreciate his eminent fitness for the work.

SEED CATALOGUES RECEIVED.

W. B. Longstreth, Gratiot, O.—Seed annual and garden catalogue.

N. L. Willett Seed Company, Augusta, Ga.—1907 seed catalogue and almanac.

Griswold Seed Co., Lincoln, Neb.—Agricultural and garden seeds, implements, poultry, supplies, etc.

Pine Tree State Seed Company, W. R. Kimball, Prop., Bath, Me.—Some Seed Truths and Bargain Catalog for 1907.

H. E. Fiske Seed Co., Boston.—Catalogue of Seeds, Bulbs and Plants

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Chas. Henderson. 4 ft.	2 00	17 50
Crimson Bedder. 3 ft.	3 00	27 50
J. D. Eisele. 5 ft.	2 25	20 00
Explorateur Crampbell. 5½ ft.	2 00	17 50
Flamingo. 4½ ft.	2 00	17 50

PINK CANNAS

L. Patry. 4½ ft.	2 00	17 50
Martha Washington. 3½ ft.	2 00	17 50
Mlle. Berat. 4½ ft.	2 25	20 00
Paul Marquant. 4½ ft.	1 75	15 00

ORANGE CANNAS

Admiral Avellan. 4½ ft.	1 75	15 00
J. D. Cabos. 4½ ft.	2 00	17 50
President Cleveland. 4 ft.	3 00	27 50
Queen of Holland.	2 75	25 00
Secretary Chabanne. 4 ft.	2 00	17 50

GOLD EDGED CANNAS

Mad. Crozy. 3½ ft.	2 75	25 00
Queen Charlotte. 4 ft.	2 75	25 00
Souv. de A. Crozy. 4 ft.	2 75	25 00

YELLOW CANNAS

Buttercup. 3½ ft.	5 50	50 00
Comte de Bouchard. 4½ ft.	2 75	25 00
Florence Vaughan. 5 ft.	2 00	17 50
L. E. Bailey. 4½ ft.	2 00	17 50

WHITE CANNAS

Alsace. 3½ ft.	2 00	17 50
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Black Beauty. 5 ft.	6 00	50 00
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Separate colors.....	.25	1.50
Choice mixed.....	.25	1.25
Victoria,		
Separate colors.....	.25	1.75
Choice mixed.....	.20	1.50
Peony Perfection,		
Separate colors.....	.25	1.50
Choice mixed.....	.20	1.25
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Pure white.....	.25	1.50
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Separate colors.....	.20	1.25
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Stocks, Ten Week, dwarf, large flowering, mixed
trade pkt. 25c
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For the Herbaceous Garden,
For the Flower Garden,
For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,
6 and 7 So. Market St., BOSTON.

Thorburn's Seeds

... OUR ...

Wholesale Catalogue

for florists and market gardeners is now ready
and will be sent free to all who ask for it.

NEW CROP flower seeds are mostly all on hand
now and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Com-
pare our prices before ordering elsewhere.
Cold Storage Lily of the Valley Pips. Best
possible grade. 1000 in case at \$12.00 per 1000.

J. M. THORBURN & CO.
33 Barclay St., through to 38 Park Place
NEW YORK

Tomato Plants

Ready for Planting
from 3 1-2 in. pots

COMET and HOLMES' INVINCIBLE
\$5.00 per 100

William W. Edgar Co.
WAVERLEY, MASS.

Comet Tomato

Those who force tomatoes should give
"Comet" a trial. This variety has been the
talk of gardeners around Boston the past
season. Those who have seen it growing de-
clare there's nothing to compare with it.
Seed, \$5.00 per oz. Trade packet \$1.00.

WILLIAM SIM, Cliftondale, Mass.

MAKE A GORGEOUS DISPLAY

I have the finest lot of trained **Easter Ramblers** in the country and am now booking orders for their delivery at proper time. **Crimson Ramblers** in bush form, \$2 to \$3 each. **Baskets**, \$2.50 to \$12. **Chairs** \$8 to \$12. **Crowns**, \$5 to \$15. **Crosses**, **Pyramids**, **Umbrella**, **Automobile**, **Bicycle**, etc. at corresponding prices. **Dorothy Perkins Ramblers** in similar styles; also **Lady Gay Ramblers**, \$3 to \$5 each. **Baby Ramblers**, \$6 to \$9 per doz.

AZALEAS, ERICAS, GENISTAS

On these specialties I have no superior. **Azaleas** are superb this year and the proportion of the popular but scarce pyramidal form is large. Quotations by dozen or hundred lots. We have the **Firefly** and **Chas. Enke** in quantity. **Ericas**, **Persoluta Alba**, **Cupressina**, **Cavendishii** and **Translucens**, are splendid and every up-to-date florist should have them. **Hydrangeas**, **Oranges**, **Tulips**, **Boronias**, **Gardenias**, **Cyclamens**, **Daisies** and a host of other desirable things. Write for prices.

ANTON SCHULTHEIS, College Point, New York

EASTER STOCK

HYDRANGEAS
EASTER LILIES
AZALEAS, 50c. to \$7.50
GLADSTONE SPIREAS
RAMBLER ROSES
HERMOSA ROSES
TULIPS, (in pans)
HYACINTHS, (in pans)
DEUTZIAS
RHODODENDRONS, etc.

WILLIAM C. SMITH
61st and Market Street, PHILA.

Market Street cars take you direct to our door. Mention Horticulture when you write.

Azaleas for Easter

From 50c. to \$5 in all colors

Also a fine lot of **Palms** in all sizes, such as **Kentias**, **Arecas**, **Latanias**, **Phoenix** and **Cocos**, **Pandanus Veitchii** and **utilis**, **Crotons**, **Dracaenas**, **Nepenthes**, **Aralias**, **Araucarias**, **Aspidistras**, **Ferns** suitable for dishes, in leading varieties. **Cibotium Schiedel** from \$1.00 to \$3.00 each.

Wholesale Price List on application.

A. LEUTHY & CO.,
Importers and Exporters, Growers and Dealers,
Perkins St. Nurseries, Roslindale,
BOSTON, MASS.

ARAUCARIA COMPACTA ROBUSTA, have only fine plants: 6 to 7 in. pots, 20 to 30 in. high, 4 to 5 years old, 3, 4, 5 tiers, \$1.50, \$1.75, \$2.00 each.

A. EXCELSA GLAUCA, 6 in., \$1.00, \$1.25; 7 in. specimens, finest in the world, \$2, \$2.50, \$3 each.

KENTIA FORSTERIANA, 6 in., 25 to 40 in. high, 75c, \$1, \$1.25 each; 7 in., made up, \$1.75, \$2 each.

SCOTTII FERNS, 8 in., as big as a washtub, \$1.25, \$1.50, worth \$3; 5½ in., 40c.; 6 in., 50c.

BOSTON FERNS, 6 in., 50c.

Cash with order. Goods travel at purchaser's risk.

CODFREY ASCHMANN,
Wholesale Grower and Importer of Pot Plants
1012 Ontario St., PHILADELPHIA PA.

WHITMANI

2 1-4 inch, \$10 per 100

BOSTONS

2 1-4 inch, \$3.00 per 100

H. H. BARROWS & SON Whitman, Mass.

AZALEAS FOR EASTER

Now is the time to get **Azaleas**. Our plants are shapely and well budded. We offer the following varieties:

Mme. Van der Cruyssen, **Deutsche Perle**, **Mme. C. Van Langenhove**, **Vervaeana**, **Empress of India**, **Bernhard Andrea Alba**, **Helen Thielman**, and **Simon Mardner**. A fair proportion only of **Mme. Van der Cruyssen** and white sorts supplied with each order.

Prices, (f.o.b. New York): 10 to 12 inch heads, \$6.00 per doz., \$45.00 per 100; 12 to 14 inch heads, \$7.00 per doz., \$65.00 per 100; 14 to 16 inch heads, \$10.00 per doz., \$75.00 per 100.

PETER HENDERSON & CO., 35-37 Cortlandt St., New York

FINEST BULBS, NURSERY STOCK, PALMS
AZALEAS, BAYS, ROSES, BUXUS, EVER-
GREENS, and LILY OF THE VALLEY
"EXCELLENTA" and "SUPERIOR."
JOHN SCHEEPERS & CO., 4 and 6 Old Slip
NEW YORK CITY

... Established 40 Years ...
ROSE HILL NURSERIES
NEW ROCHELLE, N. Y.
Most Complete Horticultural Establishment in America
SIEBRECHT & SON
New York Office: Siebrecht Building, 425 Fifth Avenue

—ORCHIDS—

Some of the varieties we shall import this spring:
Cattleyas, **Trianae**, **Labiata**, **Mossiae**, **Mendellii**, **Speciosissima**, **Gigas**, **Schroderae**, **Dendrobium Nobile**, **Wardianum**, **Phalaenopsis**, **Vandas**, **Coccoloba**, **Kimballiana**, **Oncidium Varicosum**, **Laelias**, **Anceps**, **Autumnalis**, **Albida**. Write for prices on above.

CARRILLO & BALDWIN, SECAUCUS, N. J.

ORCHIDS Importations, 1907
Save money and get our quotations on **Cattleya labiata**, **Trianae**, **Percivaliana**, **Mossiae**, **Mendellii**, **Schroderae**.

JULIUS ROEHRS CO.
Largest Orchid growers and importers in U. S.
RUTHERFORD, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World
Sander, St. Albans, England
and 235 Broadway, Room 1
NEW YORK CITY

ORCHIDS

Arrived in exceptionally fine condition the following **ORCHIDS**: **LAELIA PURPURATA**, **CATLEYA HARRISONIAE**, **C. INTERMEDIA**, **C. TRIANAE**, **C. LEOPOLDII** and many more.

Write for Prices
LAGER & HURRELL, SUMMIT, N. J.

ORCHIDS Direct from the Collectors

For Spring and Summer Delivery
We are giving quotations upon our entire list of South American, Philippine and East Indian Orchids. Choice varieties of **Cattleyas**, **Odontoglossums**, **Pilumnas**, **Cypripedium**, **Phalaenopsis**, **Dendrobium** and **Vandas**. Among them the very rare **Vanda Sanderiana** for delivery June or July.
A. HELD, 11-19 William St., New York

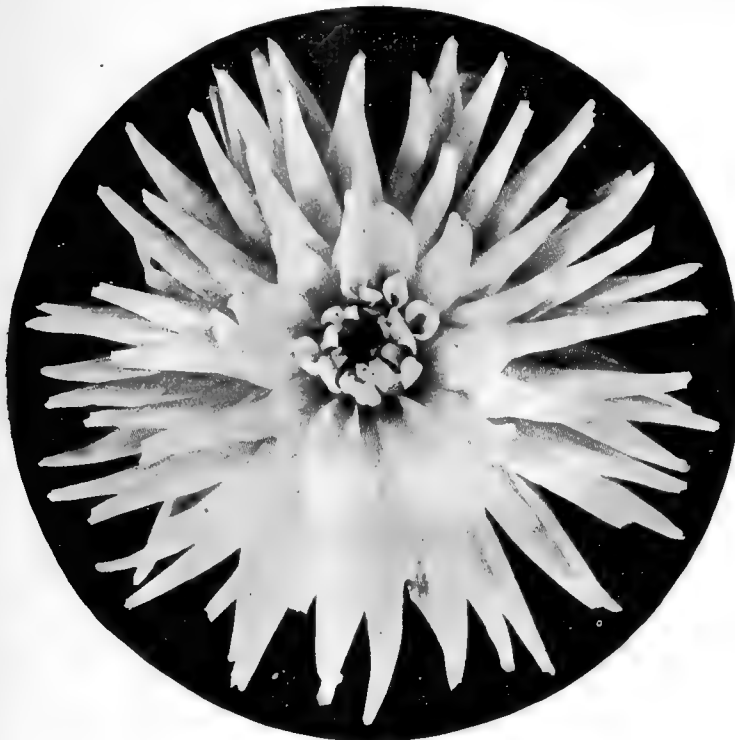
Orchids for Spring Delivery

Cattleyas, **Laelias**, **Oncidium**, etc.
Write for price list. Finest quality of Peat and Moss and Orchid Grass on the market.
Give me a trial order.
Joseph A. Manda
191 Valley Road, West Orange, N. J.

DREER'S SELECT DAHLIAS

VARIETIES SPECIALLY SUITED FOR CUT FLOWERS

Strong dormant field roots, grown at our own Nurseries where every precaution has been taken in the handling, and our customers may depend on receiving stock absolutely true to name



SINGLE CENTURY DAHLIAS—Good Divided Roots—Field-grown Stock

	Per doz.	Per 100
Crimson Century. Rich velvety crimson.....	\$2.00	\$15.00
Scarlet Century. Brilliant rich scarlet.....	3.50	25.00

	Per doz.	Per 100
A. D. Livoni, (Quilled). Pink.....	\$1.00	\$8.00
Aegir, (Cactus). Warm cardinal red.....	1.00	8.00
Admiral Dewey (Decorative). Rich French Purple.....	1.00	8.00
Anut Chloe, (Cactus). Rich black maroon.....	1.00	8.00
Baron Schroeder, (Decorative). Purple with bluish shadings.....	1.00	8.00
Catherine Duer, (Decorative). The favorite Newport red.....	1.00	8.00
Clifford W. Bruton, (Decorative). Bright yellow.....	1.00	8.00
Countess of Lonsdale, (Cactus). Pleasing salmon.....	1.50	10.00
Eva, (Cactus). Medium sized, pure white.....	2.50	15.00
Earl of Pembroke, (Cactus). Rich plum color.....	1.00	8.00
Fire-rain, (Decorative). New brilliant red.....	3.00	20.00
Floradora, (Cactus). Blood red.....	2.50	15.00
Florence N. Stredwick, (Cactus). A grand white.....	2.50	15.00
Flora, (Cactus). The ideal white.....	4.00	30.00
Frute, (Cactus). Soft rose pink, passing to cream center.....	2.50	15.00
Gigantea, (Giant). An immense creamy white.....	2.50	15.00
Gorelinde, (Cactus). Finest yellow.....	2.50	15.00
Grand Duke Alexis, (Quilled). Standard ivory white.....	1.50	10.00
Hohenzollern, (Cactus). Bronzy orange.....	1.00	8.00
Keyne's White, (Cactus). Free flowering white.....	1.00	8.00
Kriemhilde, (Cactus). Soft pink.....	1.50	10.00
Lyndhurst, (Decorative). Brilliant red.....	1.00	8.00
Lenau, (Cactus). Coral red suffused apricot.....	4.00	30.00
Mary D. Hallock, (Quilled). A useful yellow, very free.....	1.00	8.00
Mme. Alfred Moreau, (Show). A fine large pink.....	1.50	10.00
Miss May Loomis, (Show). White suffused with soft rose.....	1.50	10.00
Mrs. Winters, (Decorative). Fine white.....	1.00	8.00
Mrs. Roosevelt, (Giant). Pink.....	2.50	15.00
Nymphaea, (Decorative). Light Pink.....	1.00	8.00
Sylvia, (Decorative). Soft pink.....	1.00	8.00
Standard Bearer, (Cactus). Rich fiery scarlet.....	1.00	8.00
Strahleim Krone, (Cactus). Intense cardinal red.....	1.00	8.00
Thuringia, (Cactus). Very large, fiery red.....	4.00	30.00
Uncle Tom, (Cactus). Deep maroon.....	2.50	15.00
Victor Von Scheffel, (Cactus). Beautiful soft pink.....	2.50	15.00
Volker, (Cactus). A grand yellow.....	1.50	10.00
Winsome, (Cactus). A fine white.....	1.50	10.00
Wm. Agnew, (Decorative). Brilliant red.....	1.00	8.00
White Swan, (Show). A good white of medium size.....	1.50	10.00
Waltheri, (Cactus). Sulphur shading to white center.....	4.00	30.00
Zephyr, (Cactus). Crims in carmine.....	2.50	15.00
Zulu, (Decorative). Deep maroon shaded black.....	1.00	8.00

	Per doz.	Per 100
White Century. Large pure white.....	4.00	30.00
Twentieth Century. The standard single.....	1.50	10.00

For full descriptions of the above, as well as for a complete list of all the good varieties of Dahlias, new as well as standard sorts, see our current **QUARTERLY WHOLESALE LIST** just issued, which also contains offers of all seasonable Plants, Bulbs and seeds

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

GERANIUM

Wholesale catalogue and price list contains descriptions of seventy-five of the best standard sorts and 100 imported novelties, sent free to trade only.

R. VINCENT, Jr. & SON
WHITE MARSH, MD.

Nephrolepis Whitmanii, strong plants from 2½ in. pots, \$10.00 per hundred.
Nephrolepis Elegantissima, 2½ in. pots, \$5.00 per hundred.

P. R. QUINLAN,
SYRACUSE, N. Y.

GERANIUMS

Our selection \$18.00 per 1000, composed of the following varieties all to name: S. A. Nutt, Poitevine, La Favorite, Perkins, Brett, Viand, Castellane, Doyle and several others out of 2 1-4 in. pot, with or without soil.

	2 1-4 in pot	Rooted Cuttings
	per 100	per 100
Fuchsias in variety,	\$3.00	\$1.00
Heliotrope,	2.50	1.00
Sweet Alyssum,	2.00	1.00
Lobelia,	2.00	1.00
Ageratum,	1.50	.50
Rose Geranium,	2.00 fine plants	
Coleus in variety,		.60
Coleus Golden Bedder,		.60

Cash must accompany order.

J. E. FELTHOUSEN
154 Van Vranken Av. SCHENECTADY, N. Y.

ASPARAGUS

Plumosus, Robustus and Sprengerii

Three inch stock ready for fours. Send ten cents for samples and prices.

ALBERT M. HERR, Lancaster, Pa.

SEITARO ARAI

Yokohama, Japan

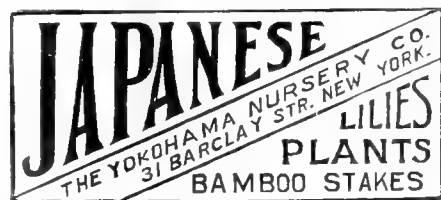
Wholesale Grower of High Class Japan Bulbs, Nursery Stock, Bamboo Canes, etc.

RALPH M. WARD & CO.

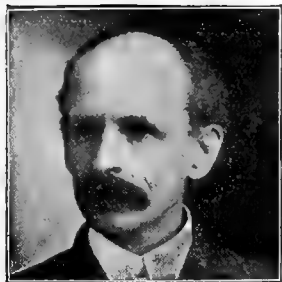
Sole Representatives in U. S. and Canada

12 West Broadway, New York

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In writing to Advertisers kindly mention Horticulture



CALDWELL THE WOODSMAN,
Introducer of the Wild Smilax.

Wild Smilax, \$2.50 per case.

THE ONLY PLACE WHERE YOU CAN ALWAYS GET IT.

Long Needle Pines, \$1.00 per dozen. Palm Crowns, \$2.50 per dozen. Extra nice long-stemmed Palm Leaves, \$2.50 per 100. Magnolia, \$2.50 per case, 16 cubic feet. Sheet Moss, \$2.00 per sack. Grey Moss, \$2.00 per sack. Galax, \$1.00 per 1000.

Speed a Specialty.

Write for Catalogue.

Caldwell the Woodsman Decorating Co., Inc., EVERGREEN, ALA.

ROSES

VIOLETS

GARDENIAS

CARNATIONS
VALLEY

AND ALL OTHER CHOICE FLOWERS

In our **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition to our regular wholesale EVERGREENS and FLORISTS' SUPPLIES

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. **Boston, Mass.**
and 9 Chapman Place,

See our Greens Advertisement on page 271.

L. D. Telephone, Main 2618.

PERSONAL.

Edward Davies, formerly on the E. D. Jordan estate at Chiltonville, has taken a position with the Model Farm Greenhouses, Dalton, Mass.

Mr. Gaul of the Battles force, Philadelphia, is laid up with typhoid. Mr. Faust of Pennock's is progressing favorably. Much typhoid in Philadelphia at present.

T. E. Brittingham, one of whose public gifts is Brittingham Park, now under construction, has been appointed a commissioner of Forest Hill Cemetery, Madison, Wis.

W. H. Ellsworth, for thirteen years chief gardener of the Omaha (Neb.) park systems, is reported to have accepted a similar position at the Battle Mountain sanitarium, Hot Springs, S. D.

Prof. A. F. Burgess, inspector of orchards and nurseries for the State of Ohio, has resigned to take charge of the Massachusetts state experiments in the gypsy and brown-tail moth campaign.

Visitors in Boston: V. De Rudder, Ghent, Belgium; H. R. Mitchell, Waterville, Me.; Charles Loechner and S. Tokuda, of Yokohama Nursery Co., New York; Julius Roehrs, Jr., Rutherford, N. J.; M. H. Walsh, Woods Hole, Mass.

Arthur Urquhart, recently at Forest Hills Cemetery greenhouses, Boston, has taken a position to commence in second week of March at the Mt. Desert Nurseries, Bar Harbor. This resulted from a "Want Ad." in HORTICULTURE.

M. H. Norton has accepted a position as representative on the road for F. W. Kelsey of New York in eastern New England territory. Mr. Norton has a wide acquaintance among the proprietors and gardeners in the many large estates on the north and south shore and starts on his duties with excellent prospects.

NEWS NOTES.

Karl Voight, 389 Eighteenth avenue, Newark, N. J., suffered loss by fire on February 23.

Albert Klitz has purchased the business of M. Fink at 2211 Cottage Grove avenue, Chicago.

Nelson France and Walter Vandegrift have purchased the greenhouses of Dr. Baker, Monroe, Mich.

A greenhouse belonging to Thomas Wanck, at Woodhaven, N. Y., was destroyed by fire on February 14.

A part of the roof of the large greenhouse of E. C. Prizer, Collegeville, Pa., collapsed recently under the weight of snow.

J. J. Waaland has purchased the stock of S. M. Hartman of Van Buren, and transferred it to his establishment in Findlay, O.

Fred Lord of the Lord & Burnham Company visited Elmira a few days ago and drew a prize in the shape of an order for the material complete for a range of eighteen greenhouses each 21.9x100 for the United States Cut Flower Company.

The South Bend Floral Co., South Bend, Ind., is equipping their retail establishment with all the modern improvements in the way of refrigerators, plate glass cases, etc. Walter Tapper has taken charge of the conservatories at 804 E. Duball avenue.

At last accounts the benefit fund for the family of the late James Hartsorne amounted to \$1,300.00. It is hoped that this will continue to grow. P. J. Hauswirth, 13 Congress St., Chicago, who has the matter in charge will receive contributions.

The hearing on the proposed legislation against lap seam boilers took place at the State House, Boston, on February 12, before the committee on mercantile affairs. It developed that there are no less than fifteen bills relative to boiler inspection and the licen-

sing of firemen. A large delegation of prominent growers in the vicinity of Boston was present as well as many representatives of the labor element, boiler makers, engineers, etc. The two latter interests developed a mutual disdain for one another and came close to a clash as they argued on the proper qualifications of a boiler inspector, and the present inspectors took a shy at the unfitness of both. The florists and market gardeners did not get much opportunity to express their views up to the time of adjournment, but it is understood that a compromise satisfactory to them has been partly arranged, and that the obnoxious clause compelling the employment of licensed firemen for agricultural and horticultural boilers is to be stricken out by the authors of the bill. The hearing adjourned till February 26, when the inspection question occupied the time fully and the licensed firemen proposition is to come up on March 6.

NOW!

This is "last call" for advertisements in **THIRD ANNUAL ROSE NUMBER**. Copy should be mailed **AT ONCE**, as we go to press on March 7.

DON'T MISS IT.

"Short is my date,
But deathless my renown."

St. Patrick's Day is Coming

Place your orders for

SHAMROCKS

1 3-4 IN. POTS

Welch Bros., 226 Devonshire St.,
OR

R. T. McGorum, Natick, Mass.

MONEY VALUE

That's what we give always. There's nothing in Florists' Supplies worth having that we cannot supply at right prices and **WE STAND BEHIND THE QUALITY** every time.

Our Tone Ware Vases and Bowls, in Pompeian Designs, are Unequalled for Rich Effect

We have a special CHIFFON in exact floral tints

It is not the cheapest but the best ever offered to the florist trade. Splendid Easter Baskets and Jardinieres are now in stock. Send for latest illustrated catalogue.

H. BAYERSDORFER & CO., 1129 Arch St., Philadelphia, Pa.

JOHN BREITMEYER'S SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada

William H. Donohoe FLORAL DECORATOR

Special Attention to Theatre and Steamer Orders and reliable deliveries guaranteed

2 West 29th Street, New York

Tel. 3034 and 3035 Madison Sq.

Send orders for flowers for delivery in

**BOSTON and all NEW
ENGLAND POINTS to**

THOS. F. CALVIN

124 Tremont St., Boston

The Park Floral Co.

J. A. VALENTINE
Pres.

DENVER, COLORADO

**Theodore Miller
FLORIST**

Long Distance Phones: Bell, Forest 56; Kinloch, Delmar
4832 Delmar Boul. ST. LOUIS, MO.

Anything of Value

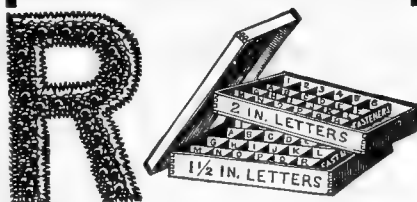
to the profession

CAN BE SOLD

through advertising in

Horticulture

BOSTON FLORIST LETTER CO. Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

P. J. HAUSWIRTH Temporarily Located at

**13 Congress Street
CHICAGO**

AUDITORIUM ANNEX Tel. Harrison 585

SAMUEL MURRAY Florist

Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO
Both 'Phones 2670 Main

FRED C. WEBER FLORIST

4326-28 OLIVE STREET ST. LOUIS, MO.
Established 1873
Long Distance Phone Bell Lindell 676

WILLIAM L. ROCK Flower Co.

KANSAS CITY, - MO.
will carefully execute orders for Kansas City and any town in Missouri or Kansas.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON
TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N. Y.

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

571 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"



GUDE BROS. CO.
FLORISTS
1214 F ST. N.W.
WASHINGTON D.C.

WASHINGTON,
D. C.

GUDE'S

Geo. H. Cooke FLORIST

Connecticut Avenue and L Street.
WASHINGTON, D. C.

William J. Smyth FLORIST

Cor. Michigan Ave. and 31st St., CHICAGO

We ship to all points in Illinois and Iowa.

Phones: Douglas 744, Douglas 523, Douglas 740

EASTER PLANTS

A COMPLETE LINE FOR THE HOLIDAYS

Send for Price List

LEO NIESSEN CO.

WHOLESALE
FLORISTS

1209 Arch St., PHILA.

Store open from 7 A. M. to 8 P. M.

SWEET PEAS

Extra Choice
\$1.00 and \$1.50
per 100

VALLEY

Best in the World

\$3.00 and \$4.00 per 100

GARDENIAS

\$3.00 per dozen

\$20.00 per 100

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

1608-1618 LUDLOW ST.

Store closes at 8 p. m.

AMERICAN BEAUTY

and all other Roses

**LILY OF THE VALLEY
CARNATIONS**

WELCH BROS.

226 Devonshire St., BOSTON, MASS.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS
PHILADELPHIA, PA.

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

EVERYTHING SEASONABLE IN
CUT FLOWERS

EDWARD REID, Wholesale Florist

1526 RANSTEAD STREET, PHILADELPHIA
Store Closes 8 P. M.

PETER REINBERG
WHOLESALE

CUT FLOWERS

51 Wabash Av., Chicago, Ill.

In writing advertisers, mention Horticulture

GALAX Green or Bronze

\$1.00 per 1000; \$7.50 per 10,000 Case

W. E. McKISSICK

Wholesale Florist

1221 Filbert St., PHILADELPHIA

BUY YOUR FLORIST SUPPLIES OF

J. STERN & CO.

now 125 N. 10th, above Arch St.,
PHILADELPHIA, PA.

FANCY WHITE LILAC

Beauties. Carnations. Violets

Superb Illustrated Supply Catalogue just
out. Send for one.

A. L. RANDALL CO., 19-21 Randolph St.
CHICAGO.

DAILY CONSIGNMENTS

From 40 to 60 Growers

We can care for your cutflower wants to
advantage.

E. F. WINTERSON CO.

45-47-49 WABASH AVE., CHICAGO

ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting
especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building

28 STATE ST., BOSTON

Telephone, Main 58.

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO February 17	ST. LOUIS	PHILA. February 25	BOSTON February 28
ROSES				
Am. Beauty, Fan. & Sp.	35.00 to 40.00	..... to	60.00 to 75.00	35.00 to 50.00
" Extra.....	25.00 to 30.00	..... to	40.00 to 60.00	25.00 to 30.00
" No. 1.....	15.00 to 20.00	..... to	25.00 to 40.00	12.00 to 25.00
" Lower grades.....	6.00 to 10.00	..... to	8.00 to 15.00	6.00 to 8.00
Bride, 'Maid, Golden Gate, F. & S.	8.00 to 12.00	..... to	12.00 to 15.00	8.00 to 12.00
" " " No. 1 & Ex.	6.00 to 8.00	..... to	8.00 to 10.00	6.00 to 8.00
" " " low grades.....	4.00 to 6.00	..... to	6.00 to 7.00	2.00 to 4.00
Liberty, Richmond, Fan. & Sp.	10.00 to 12.00	..... to	12.00 to 20.00	20.00 to 25.00
" " " low grades.....	6.00 to 8.00	..... to	8.00 to 10.00	6.00 to 12.00
Chateau, Morgan, Fan. & Sp.	10.00 to 12.00	..... to	15.00 to 20.00	10.00 to 12.00
" " " low grades.....	6.00 to 8.00	..... to	5.00 to 10.00	4.00 to 8.00
Killarney, Wellesley, Fan. & Sp.	10.00 to 12.00	..... to	15.00 to 18.00	8.00 to 12.00
" " " Lower grades.....	6.00 to 8.00	..... to	8.00 to 10.00	4.00 to 6.00
CARNATIONS				
Fancy	4.00 to 5.00	..... to	3.00 to 4.00	3.00 to 4.00
Ordinary	1.50 to 3.00	..... to	1.00 to 2.00	2.00 to 3.00
MISCELLANEOUS				
Violets, Double.....	..... to .75	..... to .....	.50 to 1.00	.35 to .60
" Single.....	.50 to .75	..... to .....	.50 to .75	.35 to .75
Paper White Nar., Roman Hy.....	3.00 to .....	..... to	1.00 to 5.00	1.50 to 2.00
Tulips, Daffodils.....	3.00 to 4.00	..... to	2.00 to 4.00	1.50 to 2.00
Cattleyas.....	40.00 to 50.00	..... to .....	..... to 50.00	35.00 to 50.00
Lilies, Callas.....	10.00 to 15.00	..... to	8.00 to 15.00	10.00 to 12.00
Freesia.....	2.00 to 4.00	..... to	1.00 to 3.00	1.00 to 2.00
Gardenias.....	40.00 to 50.00	..... to .....	..... to .....	..... to 50.00
Lily of the Valley.....	3.00 to 4.00	..... to	2.00 to 4.00	2.00 to 4.00
Mignonette.....	4.00 to 8.00	..... to	2.00 to 4.00	1.00 to 2.00
Adiantum.....	1.00 to 1.50	..... to .....	..... to 1.00	1.00 to 1.50
Smilax.....	12.00 to 15.00	..... to	12.50 to 15.00	17.00 to 16.00
Asparagus Plumosus, strings.....	25.00 to 50.00 to to 50.00 to 50.00
" " & Sprenger bunches.....	25.00 to 50.00 to to 50.00	35.00 to 50.00

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TO BUYERS

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Cut Flower Market Reports

BOSTON Business is very sluggish this week in and around the Hub. Flowers are coming in plentifully and are heaped up on all sides with very poor prospects of finding a market. In fact, the long-expected slump has arrived and the market has been under the influence for the past three days. Roses, carnations, violets and bulbous material are all in the same boat. Violets have been sold as low as \$1.00 a thousand and everything else in proportion.

BUFFALO Business the past week has been on the quiet; the weather was favorable but the supply exceeded the demand. Bulbous stock, especially tulips, daffodils, lily of the valley, narcissi, etc., were over-flowing and prices were exceptionally low. Carnations also very plentiful, the best in demand being Enchantress. Colored carnations too plentiful to hold prices, a good many were on the bargain counter and were hardly moved at any price. Roses have held firm. Some good quality Bridesmaids, La Detroit and Killarney were had and have sold rapidly. Lilies have not been too plentiful and prices are holding well. Violets are coming in heavier and prices dropping considerable. It may be said that "Lenten glut" has finally overtaken us and we are at the mercy of the buyers. Green goods in normal supply.

COLUMBUS Another fine week of trade. Stock is coming along very fast; in fact, if things keep on as now, prices will surely have to give way. The writer was sorry to note the arrival of the first street fakir, with carnations; this is always a signal for the cutting of rates—and prices have been maintained, so far this season, on such a good paying basis that it seems hard that they must now be ruthlessly broken. Plans for Easter are being discussed by all, and the outlook now fortells a great business. Every branch of the business has never been in better shape than it is right now.

DETROIT The dullness of Lent is heavily felt in the local market. Carnations and violets are in plentiful supply but roses are still scarce. Bulb stock is a drag principally because some wholesale grower has bought an enormous quantity of Dutch bulbs, overestimating the digestive ability of the local market for this class of goods.

INDIANAPOLIS Trade has been all that the most enthusiastic could desire the past week. Flowers are no longer scarce. The rose supply has been increased by a few bright days. Prices are still unreasonably high in

some lines considering the quality offered. American Beauty supply is still inadequate for any continuance of live trading. The demand for spring flowers and flowering plants is constantly increasing and is leading to a falling off in the call for roses and carnations. In summing up, trade can be said to be in excellent condition notwithstanding the opening of the Lenten season which seems to have had less effect on trade than heretofore. Stock looks very promising for Easter, the local growers say.

NEW YORK The deluge has been temporarily retarded by the severe wintry conditions of the past week and neither surplus nor prices weakening have gone to the extremes that might have been reached under normal conditions. Nevertheless the market is distinctly lower especially on bulbous flowers, violets and carnations. Roses of the higher grades are still hanging on in the top branches but a surplus of the cheaper quality may easily be discerned without the use of a spyglass.

PHILADELPHIA What we want now is warmer weather. Business is very slow. Roses are more plentiful and there has been a considerable drop in prices; but the cheaper grades of whites are scarce. There are no good Beauties around yet, but Richmond is in fine shape. The carnation market fell away considerably especially on the fancy grades. Medium whites are most in demand. All other stock plentiful—sweet peas, violets, lily of the valley, bulbous flowers, everything—with possibly the exception of cattleyas; they are quite scarce. HORTICULTURE shouldn't talk so much about orchids. It cleans up the market too close.

TWIN CITIES The trade in general appears to be satisfied with results of the past week's business. Notwithstanding that Lent is now on, business seems to keep up remarkably well and stock is coming in nicely. A matter of two weeks ago this market was in a bad way for its supply of carnations. We are now cutting a sufficient number of good blooms. With all growers roses are in crop, and the sunshine of the past week has brought out some specimen blooms, especially of Mme. Chatenay, Richmond and Moulton. One of our largest growers has been favored with some of the finest Kil-

The New "Market" ..Opening Announcement..

Mr. Messrs. Berger Bros., beg to announce the opening of their new store at 1305 Filbert St., (the old Dumont place), where they will be pleased to greet their old friends and customers, and extend to them the courtesies and facilities of an up-to-date commission house. They also wish new connections—both in buying and selling—and respectfully solicit a visit or enquiry. Their motto:

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larnays ever seen on this market. Princess of Wales violet, as shown by one of our growers, is indeed hard to beat; they have stems fully 12 inches long and the blooms are perfect. The market on bulb stock is in a bad way; while the demand is good, there appears to be an over supply, and tulips especially have suffered. Some very fine Yellow Prince were sold at \$1.00 per 100. Easter stock looks indeed promising; lilies are much better than last year, no doubt partially due to the fact that a better grade of bulbs was purchased. Azaleas are beginning to show buds, and with some are already in cool houses. Hydrangeas and spireas are good in general; the latter, however, is not grown so extensively for Easter as in previous years. There is a noticeable increase in Primula obconica, and the plants are far superior to those of previous seasons.

WASHINGTON One of the coldest waves of the winter struck Washington Friday, but seemed in no way to affect the stores, as but little vacant space is seen. Trade is brisk, and prices are still high owing to a scarcity of flowers. There was a rather large shipment of carnations into the District on Saturday, which caused a slight stagnation in the market. Notwithstanding an abundance of sunshine, home-grown flowers continue scarce and high. Lilac is the best seller at present. Good azaleas at reasonable prices are abundant but not in much demand. Bulbous stock is not so plentiful, as most growers are retaining the greater part of their supply for Easter. Lenten dinners among the society people are affording the retailers considerable decorative work.

BUSINESS CHANGES.

Charles D. Offerle of Warren has purchased the retail florist business of Verne Schluraff on State street, Erie, Pa. Mr. Schluraff intends to devote himself to growing for the wholesale market in the vicinity of Erie.

SOUTHERN WILD SMILAX

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Feb. 23 1907	First Half of Week beginning Feb. 25 1907		Last Half of Week ending Feb. 23 1907	First Half of Week beginning Feb. 25 1907
Roses			Carnations, Ordinary	1.50 to 2.00	1.00 to 2.00
Am. Beauty, fan and sp.	40.00 to 75.00	40.00 to 75.00	Violets, double	.25 to .60	.20 to .50
" extra	25.00 to 30.00	25.00 to 30.00	" single	.15 to .50	.15 to .50
" No. 1	15.00 to 20.00	15.00 to 20.00	Paper White Nar., Roman Hy.	1.00 to 2.00	1.00 to 2.00
" Lower grades	3.00 to 10.00	3.00 to 8.00	Tulips, Daffodils	1.00 to 3.00	1.00 to 3.00
Bride, 'Maid, Golden Gate, fan & sp	10.00 to 12.00	10.00 to 12.00	Cattleyas	20.00 to 40.00	20.00 to 40.00
" " No. 1 & Ex.	5.00 to 8.00	5.00 to 8.00	Lilies, Callas	8.00 to 12.00	8.00 to 12.00
" " low grades	3.00 to 4.00	3.00 to 4.00	Freezia	.50 to 2.00	.50 to 2.00
Liberty, Richmond, fancy & special	15.00 to 25.00	15.00 to 25.00	Gardenias	10.00 to 50.00	10.00 to 35.00
" lower grades	3.00 to 10.00	3.00 to 10.00	Lily of the Valley	1.00 to 4.00	1.00 to 4.00
Chatenay, Morgan, fancy and spec.	10.00 to 12.00	10.00 to 12.00	Alphonette	2.00 to 8.00	2.00 to 8.00
" lower grades	3.00 to 8.00	3.00 to 6.00	Adiantum	.50 to 1.00	.50 to 1.25
Killarney, Wellesley, fan. and spec.	10.00 to 12.00	10.00 to 12.00	Smilax	15.00 to 25.00	15.00 to 25.00
" lower grades	3.00 to 6.00	3.00 to 6.00	Asparagus Plumosus, strings	20.00 to 35.00	25.00 to 35.00
Carnations, Fancy	3.00 to 6.00	3.00 to 5.00	" & Sprenger, bunches	15.00 to 35.00	15.00 to 35.00

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6 x 6 x 24 6.80

4 x 12 x 24 9.00

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6 x 12 x 30 12.50

5 x 12 x 36 14.00

6 x 12 x 36 15.00

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6 x 15 x 48 23.00

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PER 100.
TO DEALERS ONLY.

	CINCINNATI February 25	DETROIT February 25	BUFFALO February 25	PITTSBURG February 25
ROSES				
Am. Beauty, Fan, and Sp.....	50.00 to 75.00	50.00 to 75.00	50.00 to 75.00	40.00 to 50.00
" Extra	40.00 to 50.00	20.00 to 40.00	25.00 to 35.00	25.00 to 30.00
" No. 1	30.00 to 35.00	12.00 to 15.00	20.00 to 25.00	8.00 to 10.00
" Lower grades	10.00 to 12.00	8.00 to 12.00	..... to .....	..... to 4.00
Bride, 'Maid, Golden Gate, F. & S.	8.00 to 10.00	10.00 to 15.00	12.00 to 15.00	15.00 to 18.00
" " " " " No. 1 & Ex.	5.00 to 8.00	6.00 to 8.00	10.00 to 12.00	10.00 to 12.00
" " " " " low grades	4.00 to 5.00	4.00 to 6.00	4.00 to 10.00	5.00 to 6.00
Liberty, Richmond, Fan, & Sp.	8.00 to 10.00	10.00 to 15.00	10.00 to 20.00	15.00 to 20.00
" " " " " Lower grades	5.00 to 8.00	5.00 to 8.00	5.00 to 10.00	6.00 to 10.00
Chatenay, Morgan, Fan, & Sp.	8.00 to 10.00	10.00 to 15.00	10.00 to 15.00	15.00 to 18.00
" " " " " Lower grades	5.00 to 8.00	6.00 to 8.00	5.00 to 15.00	6.00 to 12.00
Killamey, Wellesley, Fan, & Sp.	8.00 to 12.00	10.00 to 15.00	..... to	12.00 to 15.00
" " " " " Lower grades	6.00 to 10.00	6.00 to 8.00	..... to	6.00 to 10.00
CARNATIONS				
Fancy and Novelties	3.00 to 5.00	3.00 to 4.50	4.00 to 5.00	4.00 to 5.00
Ordinary	1.50 to 2.00	1.50 to 2.50	2.00 to 3.00	2.50 to 3.00
MISCELLANEOUS				
Violets, Double .....	.50 to 1.00	.75 to 1.00	.60 to .75	.35 to 1.00
" Single .....	.50 to 1.00	.50 to 1.00	.40 to .75	.25 to .40
Paper White Nar., Roman Hy.	3.00 to	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Tulips, Daffodils	3.00 to 4.00	3.00 to 4.00	2.50 to 3.00	2.00 to 3.00
Cattleyas .....	..... to 10.00	..... to 10.00	..... to 10.00	..... to 10.00
Lilies, Callas	10.00 to 15.00	10.00 to 18.00	5.00 to 20.00	12.50 to 15.00
Freesia .....	..... to 3.00	..... to 4.00	2.00 to 4.00	1.00 to 3.00
Gardenias .....	..... to 15.00	..... to 15.00	..... to 15.00	15.00 to 20.00
Lily of the Valley	3.00 to 4.00	2.00 to 4.50	3.00 to 4.00	2.00 to 4.00
Mignonette .....	..... to 6.00	6.00 to 8.00	3.00 to 5.00	2.00 to 5.00
Adiantum .....	..... to 1.00	1.00 to 1.50	.50 to 1.00	.75 to 1.25
Smilax .....	..... to 15.00	15.00 to 18.00	12.00 to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	50.00 to 60.00	40.00 to 50.00	25.00 to 50.00
" " & Sprenger, bunches to 25.00	30.00 to	25.00 to 30.00	30.00 to 40.00

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Asparagus Robustus.
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Asparagus plumosus nanus and Sprengeri, 2 1-2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.
Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.
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Asparagus Sprengeri, 2 1-4, 3 and 4 in., \$2.00, \$4.00 and \$8.00. Special prices on 1000 lots. Mosback Greenhouse Co., Onarga, Ill.

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Columbia Farm Longiflorum Bulbs from Cold Storage.
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Cannas, Pennsylvania, \$2.00; Niagara, Buttercup, \$5.00 per 100. P. A. Baker, Media, Pa.
50,000 Cannas, fine, \$10 to \$15 per 1000. Best sorts. Write Benj. Connell, West Grove, Pa.
Cannas, 150,000 in the 50 best varieties. Descriptive list now ready. Mosback Greenhouse Co., Onarga, Ill.
Cannas, 500,000 plump, sound roots, no culls, true to name, 2 to 3 eyes and more, all the leading kinds, \$7.50 per 1000, and upwards. Write for list and price before you buy elsewhere. Ask for list of Dahlias. Shellroad Greenhouses, Grange, Baltimore, Md.
Cannas. Good bulbs, 2 or 3 eyes, Austria, Robusta, Augusta Ferrier, King Edward, Victor Hugo, Morning Star, Paul Marquant, Pennsylvania, Robert Christie, Admiral Courbet, Mlle. Berat, Flamingo, Partenope, \$2.00 per 100. Started roots from sand after March 1, \$2.50 per 100. Est. of David Fisher, Woburn, Mass.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.
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S. S. Skidelsky, 824 N. 24th St., Phila.
Rose Pink Enchantress.
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Chicago Carnation Co., Joliet, Ill.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Carnations, Winsor, White Enchantress, Helen M. Gould.
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J. W. Howard, Somerville, Mass.
Carnation Debutante.
A. J. Guttman, 43 W. 28th St., New York.
John E. Haines, Bethlehem, Pa.
Carnation Imperial and Pink Imperial.
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F. Dorner & Sons Co., Lafayette, Ind.
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Guttman & Weber, 43 W. 28th St., N. Y.
Carnation Victory.
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H. A. Stevens Co., Dedham, Mass.
Rooted Cuttings.
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Peter Fisher, Ellis, Mass.
Cottage Gardens Co., Queens, N. Y.
Carnation Beacon.
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N. Y. Cut Flower Co., 55-57 W. 26th St., New York. J. A. Millang, Mgr.
Carnation Windsor Blooms.
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S. S. Pennock-Meehan Co., Philadelphia.
For page see List of Advertisers.
Harlowarden Greenhouses, Greenport, N. Y.
For page see List of Advertisers.
Send for list of rooted cuttings of new and leading commercial varieties of carnations and chrysanthemums. Wm. Swayne, Kennett Square, Pa.
We can furnish several thousand unrooted cuttings of Fair Maid and Queen Louise for immediate delivery at \$6.00 and \$5.00 per thousand. Cohanze Carnation Greenhouses, New London, Conn.
Elbon, a fine red carnation, easy to grow, a money maker. Fine rooted cuttings, \$20.00 per 1000, \$2.50 per 100. Send for catalogue of 35 other varieties. Locust Street Greenhouses, J. H. A. Hutchinson, Prop., Oxford, Pa.
Healthy rooted carnation cuttings Queen Louise, Hill, Gomez, Norway, Boston Market, \$9.00 per 1000, Melody, \$5.00 per 100. Red Lawson, \$15.00 per 100. Lawson, Harlowarden, Mrs. Nelson, \$12.50 per 1000. White Cloud unrooted, \$4.00 per 1000. Wm. Ehmann, Corfu, N. Y.

CHRYSANTHEMUMS

Eggeling Floral Co., 1653 S. Grand Ave., St. Louis, Mo.
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Charles H. Totty, Madison, N. J.
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Harlowarden Greenhouses, Greenport, New York.
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Chicago Carnation Co., Joliet, Ill.
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Chrysanthemums, Jeanne Nonin, C. Touset, Mrs. Brice, Roi d'Italie, Fred Lemon, Merza, Cobbold, M. Ware, Oct. Sunshine, Beauty of Sussex, \$2.00 per 100. Glory Pacific, Kalb, Monrovia, Polly Rose, Alliance, Mrs. Robinson, J. Shrimpton, Bride, Bonaffon, Halliday, Duckham, Cullingfordii, Mrs. Chamberlain, Arline, Ermenilda, W. Bonaffon, Princess, M. Friend, Nellie Pickett, Lincoln, W. Jones, G. Wedding, Ben Wells, Yellow Eaton, Enguehard, Mrs. Weeks, Appleton, G. Trophy, Florence Teal, A. Balfour, Intensity, Mme. Perrin, \$1.50 per 100; \$12.50 per 1000. Wm. Ehmann, Corfu, N. Y.

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CLEMATIS

Clematis Paniculata. Strong field-grown plants, \$15.00 per 100; strongest, \$30 per 100. Quotations on larger quantities. Est. David Fisher, Woburn, Mass.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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DAHLIAS

David Herbert & Son, Atco, N. J.
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J. K. Alexander, E. Bridgewater, Mass.
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Harlowarden Greenhouses, Greenport, New York.
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THE DAHLIA MANUAL.

An up-to-date work on dahlias and dahlia culture, covering the whole field. Illustrated. Price, 35c. W. W. WILMORE, Box 382, Denver, Colo

I am again ready to handle your business. Only the cream of varieties handled. Standards and novelties, including Mrs. Winters, Mme. Dael, Navajo, Lonsdale, Dainty, Kriemhilde, etc. Catalogue of dahlias, hollyhocks, peonies and hardy plants now ready. W. W. WILMORE, Box 382, Denver Colo.

DAISIES

Leedham Bulb Co., Santa Cruz, Cal.
Shasta Daisies.

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Alexandra Daisies, 2 in., \$1.50 per 100.
P. A. Baker, Media, Pa.

Daisy Queen Alexandra; nice 2 and 2 1/2 inch pot plants. A new semi-double white flowering variety. Handsome pot plants for spring trade. \$2.50 and \$3.00 per 100; cash. Theo. F. Beckert, Coraopolis, Pa.

DECORATIVE PLANTS

A. Leutny & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

EASTER FLOWERING PLANTS

A. Schulthels, College Point, N. Y.
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Peter Henderson & Co., 35 & 37 Cortlandt St., New York.

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John Scheepers & Co., 46 Old Slip, N. Y.
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FERNS

A. Leutny & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitmanii.

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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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P. R. Quinlan, Syracuse, N. Y.
Nephrolepis Whitmanii and Elegantissima.
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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2 Bowery, New York.

FLORISTS' FERTILIZER

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.
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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.

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Decorative Evergreens.

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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.

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J. Stern & Co., 125 N. 10th St., Phila.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich

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Thos. Young, Jr., 41 W. 28th St., N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.

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Samuel Murray, 1017 Broadway, Kansas City, Mo.

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Young & Nugent, 42 W. 28th St., N. Y.
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W. H. Donohoe, 2 W. 29th St., New York.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.

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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.

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William J. Smyth, Michigan Ave and 31st St., Chicago.

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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.

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Thos. F. Galvin, 124 Tremont St., Boston.
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A. H. Hews & Co., Cambridge, Mass.
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Syracuse Red Pots.
Syracuse Pottery Co., Syracuse, N. Y.
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Ever Ready Flower Pot Cover Co., 309 Mortimer St., Buffalo, N. Y.
Ever Ready Flower Pot Cover.

GALAX

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

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Caldwell the Woodsman Decorating Co., Evergreen, Ala.

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J. N. Pritchard, Elk Park, N. C.
Bronze and green galax. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

Galax leaves, leucothoe sprays, dagger and fancy ferns, green and bronze. Write F. W. Richards & Co., Banner Elk, N. C.

GERANIUMS

R. Vincent, Jr., & Son, White Marsh, Md.
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J. E. Felthousen, Schenectady, N. Y.
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GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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Gladioli. C. Betscher, Canal Dover, O.
Gladioli, named varieties. Write for list. E. E. Stewart, Rives Junction, Mich.

Gladiolus Augusta, 1st size, \$12.00; 2nd size, \$8.00 1000. Cash. Rowehl & Granz, Hicksville, N. Y.

Gladioli, all sizes. Stock direct from Groff. Nothing better, \$1.00 to \$5.00 per 1000. P. O. Coblenz, New Madison, Ohio.

Groff's hybrids, good blooming size, \$8.00; small blooming size, \$5.00 per 1000. Bulbets \$2.00 per peck, \$5.00 per bushel. E. R. Macomber, 20 Leonard St., Portland, Me.

GLASS

Boston Plate & Window Glass Co., Boston.
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Peerless Glass Repair Clamp; you need them—100 for \$1.00. A. Klokner, Wauwatosa, Wis.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.

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Weathered Co., Box 789, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
Theodore Miller, 4832 Delmar Bvd.,

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GREENHOUSE BRACKETS

Buxton & Allard, Nashua, N. H.
Economy Greenhouse Bracket.

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In writing to Advertisers kindly mention Horticulture

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.
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The Kervan Co.,
20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich., Wm. Dilger, Mgr.
Fancy Ferns.

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E. A. Beaven, Evergreen, Ala.

Fadeless Sheet Moss.

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Hardy cut ferns. L. B. Brague, Hinsdale, Mass.

Fancy Ferns, green sheet moss; leucothoe sprays, etc. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.

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Perennial plants, 50,000 field and pot-grown. Descriptive list now ready. Mosbaek Greenhouse Co., Onarga, Ill.

HEATING APPARATUS

Lord & Burnham Co.,

1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Kroeschell Bros., 35 Erie St., Chicago.
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HOLLYHOCKS

Hollyhocks. Large field-grown plants, \$3.00 per 100. Double in separate colors of red, white, pink, yellow and maroon; also the Allegheny strain. Send for catalogue of hollyhocks, dahlias and hardy plants. W. W. WILMORE, Box 382, Denver, Colo.

HORICUM

Hammond's P. & S. S. Works, Fishkill-on-Hudson, N. Y.
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HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.

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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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JAPAN BULBS

R. M. Ward & Co., 12 W. Broadway, N. Y.
Saitaro Arai, Yokohama, Japan.
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JAPAN LILIES

H. H. Berger & Co., 47 Barclay St., N. Y.

KENTIAS

Godfrey Aschmann, 1012 Ontario St., Phila.
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A. Leuthy & Co., Roslindale, Mass.

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LAWN MOWER

Clipper Lawn Mower Co., Dixon, Ill.

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LEADING RETAIL FLORISTS

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Thomas Young, Jr., New York.

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Fred C. Weber, 4326 Olive St., St. Louis, Mo.

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J. Breitmeyer's Sons, Detroit, Mich.

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George H. Cooke, Washington, D. C.

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Samuel Murray, 1017 Broadway,

Kansas City, Mo.

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LEADING RETAIL FLORISTS—Continued.

Gude Bros. Co., 1214 F St.,

Washington, D. C.

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Eyres, 11 N. Pearl St., Albany, N. Y.

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Young & Nugent, 42 W. 28th St., N. Y.

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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd.,

St. Louis, Mo.

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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.

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William J. Smyth, Michigan Ave. and 31st St., Chicago.

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Wm. H. Rock Flower Co., Kansas City, Mo.

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Park Floral Co., Denver, Colo.

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Thos. F. Galvin, 124 Tremont St., Boston.

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W. H. Donohoe, 2 W. 29th St., New York.

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NICO-FUME

Ky. Tobacco Product Co., Louisville, Ky.

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NURSERY STOCK

John Waterer & Sons, Ltd.,

American Nursery, Bagshot, England.

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Cottage Gardens Co., Queens, N. Y.

Specimen Nursery Stock.

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John Scheepers & Co., 4-6 Old Slip, N. Y.

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The Conard & Jones Co., West Grove, Pa.

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F. W. Kelsey, 150 Broadway, New York.

Elizabeth Nursery Co., Elizabeth, N. J.

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The Wm. H. Moon Co., Morrisville, Pa.

Retinosporas, Golden and Silver Forms.

Cut leaf Staghorn sumach, large stock,

6c. to 15c.; Kudzu Vines, 15c. Edw. Teas,

Jeplin, Mo.

To clear the land for other stock. 3000

Willow, Laurel Leaved and Golden, 4 to 6

ft., \$9.00 per 100; 6 to 8 ft., \$14.00 per 100.

4000 White Pine, 8 to 14 in., transplanted,

\$6.00 per 100; 6 to 10 in., seedlings, \$3.50

per 100. 2000 Hemlock, 4 to 6 ft., trans-

planted, \$7.00 per 100; 6 to 10 in., seed-

lings, \$3.50 per 100. Fine, clean stock.

The Pierce Nursery, Beverly Farms, Mass.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.

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Sander, St. Albans, England.

Importers, Exporters, Growers, Hybridists.

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Julius Roehrs Co., Rutherford, N. J.

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Carrillo & Baldwin, Secaucus, N. J.

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Seibrecht & Son, Rose Hill Nurseries,

New Rochelle, N. Y.

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A. Leuthy & Co., Roslindale, Mass.

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Seibrecht & Son, Rose Hill Nurseries,

New Rochelle, N. Y.

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PANSIES

Pansy plants; strong transplanted \$4.00 and \$10 per 1000. F. A. Baller, Bloomington, Ill.

PATENTS

Siggers & Siggers, Washington, D. C.

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PEONIES

Cottage Gardens Co., Queens, N. Y.

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Peonies, fine assorted, \$10.00 per 100. F. A. Baller, Bloomington, Ill.

Peonies. 1200 sorts. Greatest list anywhere. C. Betscher, Canal Dover, Ohio.

Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

Choice mixed single and double seedlings from our noted collections of over three hundred varieties, strong undivided clumps, \$6.00 per 100. Mt. Desert Nurseries, Bar Harbor, Me.

PETUNIAS

The Yates Floral Co., Canajoharie, N. Y.

Scranton Florists' Supply Co., Scranton, Penn.

Double Petunia the Queen.

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PHILADELPHUS

Syringa grandiflora, 3 years, strong, \$15.00 per 100. John Stamm, Hutchinson, Kan.

PHLOXES

Twenty choice named varieties, strong field grown plants, \$4.00 per 100; \$30.00 per 1000. Mt. Desert Nurseries, Bar Harbor, Me.

Hardy phlox, best assortment, standard varieties, 2-year, field clumps, \$3.00 per 100; \$25.00 per 1000. John Stamm, Hutchinson, Kan.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.

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PRIVET

10,000 California Privet 1-year, well rooted, \$1.25 per 100; \$10.00 per 1,000. Address W. F. Allen, Salisbury, Md.

PRUNING SHEARS

Rhodes Mfg. Co., Grand Rapids, Mich.

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RHODODENDRONS

John Waterer & Sons, Ltd., American

Nursery, Bagshot, Eng.

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ROSES

M. H. Walsh, Woods Hole, Mass.

Hardy Roses, H. T. Roses and Rambles.

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Bassett & Washburn, Hinsdale, Ill.

Rooted Cuttings of Kaiserin, Pres. Carnot,

La Detroit.

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Paul Niehoff, Leighton, Pa.

Rose Aurora.

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Robert Scott & Son, Sharon Hill,

Del. Co., Pa.

Grafted Roses.

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The Conard & Jones Co., West Grove, Pa.

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Bay State Nurseries, No. Abington, Mass.

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S. S. Pennock-Meehan Co., Philadelphia.

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A. N. Pierson, Cromwell, Conn.

Grafted Roses, Own-Root Beauties.

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Chicago Carnation Co., Joliet, Ill.

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The beautiful new pink rose, MISS KATE MOULTON is the queen of all pink roses. It's a winner and you should grow it. Price \$30.00 100; 500 \$125.00; 1000 \$200.00; 5000 and upwards \$175 per 1000. Minneapolis Floral Co., Minneapolis, Minn.

ROSES—Continued.

Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1/4-in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SEEDS

T. J. Grey & Co., 32 So. Market St., Boston, Mass.
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Joseph Breck & Sons
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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Henry A. Dreer, Philadelphia.
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H. F. Michell Co., 1017 Market St., Phila.
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James Vick's Sons, Rochester, N. Y.
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W. W. Rawson & Co., 5 Union St., Boston.
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Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Johnson Seed Co., 217 Market St., Phila.
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R. & J. Farquhar & Co., 6-7 So. Market St., Boston.
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Watkins & Simpson, 12 Tavistock St., London, Eng.
Sweet Pea Novelties.

Wm. Elliott & Sons, 201 Fulton St., N. Y.
Begonia Vernon.
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I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

SHEEP MANURE

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Wizard Brand.

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R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston.

Pulverized Sheep Manure.

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SHEET MOSS

E. A. Beaven, Evergreen, Ala.
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SMALL FRUIT PLANTS

Dewberry plants, Lucretia and Austin, \$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00 per 1000, \$25.00 per 5000. Turner red raspberry plants, \$6.00 per 1000, \$25.00 per 5000. W. F. Allen, Salisbury, Md.

SMILAX

Smilax seedlings, fall-sown, \$3.00 per 1000. F. A. Baller, Bloomington, Ill.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.
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STOCKS

Stocks. Snowflake or Dwarf Bouquet, Benary's strain, 90 per cent. double, white, blue, red, each separate, for Easter bloom, 2-inch, \$2.00 per 100; \$15.00 per 1000; seeds cheap. Cash. Shellroad Greenhouses, Grange, Baltimore, Md.

STRAWBERRY PLANTS

Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

TOMATO SEEDS

Wm. Sim. Cliftondale, Mass.
Comet Tomato.

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UNLEACHED HARDWOOD ASHES

John Joynt, Lucknow, Ont., Can.
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VEGETABLE PLANTS

50,000 large 4-year old Barrs Mammoth Asparagus roots, \$6.00 per 1000; \$25.00 per 5000 (500 will fill a sugar barrel.) Address W. F. Allen, Salisbury, Md.

VENTILATING APPARATUS

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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VINCAS

Vincas, variegated, 3-in., \$4.00 per 100; Vinca minor (myrtle), 3-in., \$3.00 per 100. C. F. Mahan, R. D. No. 8, Dayton, O.

Myrtle (Vinca minor). Here I am again with the biggest stock in America, \$10.00 to \$40.00 per 1000. S. J. Galloway, Eaton, Ohio.

10,000 vincas 2 1/2 in., fine, \$2.50 per 100; \$20.00 per 1000. R. Cuttings same, \$1.00 per 100; \$7.00 per 1000. Cash, please. Benj. Connell, West Grove, Pa.

VIOLETS

H. R. Carlton, Willoughby, O.
Violet. Gov. Herrick.

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WANTED

Wanted—Mrs. Roosevelt calla.
Wanted—You to send for my price list of hardy plants, etc. It's free. S. J. Galloway, Eaton, Ohio.

WILD SMILAX

E. A. Beaven, Evergreen, Ala.
Southern Smilax.

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Caldwell the Woodsman Decorating Co., Evergreen, Ala.

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WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

Wire work, all kinds. C. E. Critchell, 36 E 3rd St., Cincinnati, O.

William E. Hellscher's Wire Works, 38 40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

Wire work. Best made. Try a sample order. Scranton Florist Supply Co., Scranton, Pa.

WIRE SUPPORTS

The Heim Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

WHOLESALE FLORISTS**Boston**

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FLORISTS' WAGONS FOR SALE

Three florists' open wagons,
three florists' top wagons and
three sets of harnesses. Can be
seen at 1 West 28 St., New York.
EDWARD HIGGINS.

WANTS, FOR SALE, ETC.

Advertisements in this column one
cent a word. Initials count as words.
Cash with order.

FOR SALE

FOR SALE

Desirable greenhouse plant, directly op-
posite Woodlawn Cemetery, Everett, Mass.
Large and increasing demand for funeral de-
signs, bouquets and bedding stuff. Care
of lots in the Cemetery, a branch of the
business. Fine dwelling house with all
modern improvements, 6000 ft. of glass, 45-
000 ft. of land. Paying business with open
chance to increase. Sold on account of ad-
vancing years. Apply to William Christie,
Woodlawn Ave., Everett, Mass., or at Hor-
ticulture office 11 Hamilton Place, Boston.

FOR SALE—Greenhouse Pipe

4-in. boiler tubes, second hand, in fine
condition, absolutely free from scale and
with ends cut square. Sample and prices
on application. Kroeschell Bros. Co., 35
Erle St., Chicago.

HELP WANTED

HEAD GARDENER and wife wanted on
gentleman's country place; must under-
stand growing grapes, roses and herbace-
ous stock and have some knowledge of
forestry. Only experienced gardener need
apply; English, Scotch or German pre-
ferred. Apply in writing, stating quali-
fications, to S. Y. X., P. O. Box 2417,
Boston.

WANTED—A good, reliable nurseryman
who understands the propagation of shrubs,
perennials, etc., and who has had experi-
ence in landscape work. Give full particu-
lars and state salary expected. C. R. Fish
& Company, Worcester, Mass.

WANTED—A good working gardener
with some experience in outdoor planting
and hardy rose culture. Steady job for the
right man. Address M. W., care HORTI-
CULTURE, 11 Hamilton Place, Boston.

WANTED—Gardener as assistant, compe-
tent in all branches, capable of taking en-
tire charge. Place private. Apply stating
age, wages expected, with references, Box
232, Glen Cove, Nassau Co., N. Y.

WANTED—A sober and reliable all-round
man on a commercial place. Address Geo.
E. Felch, Ayer, Mass., Box 455.

SITUATIONS WANTED

WANTED—MANAGER'S POSITION on
gentleman's estate by competent married
man, English Protestant, age 33, fully ex-
perienced in greenhouses, hot beds, flower
and vegetable gardening, dairy stock, poul-
try, etc.; wife in dairy work. References.
N. S. Shepherd, Canton St., Dedham, Mass.

WANTED—A good designer capable of
taking care of 3 small greenhouses and
small garden. Of good experience; strictly
sober, honest and reliable; well up in Eng-
lish; capable of taking telephone orders.
References required. Address J. Fuller, 31
Orchard St., Leominster, Mass.

POSITIONS WANTED for head garden-
ers and assistants; for further information
apply to W. W. Rawson & Co., 5 Union
St., Boston, Mass.

BUSINESS CHANCES

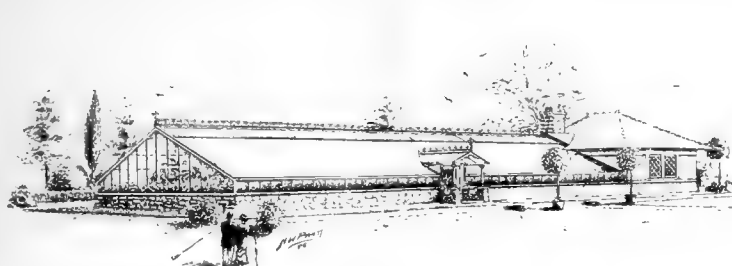
WANTED—A partner for a good whole-
sale and retail florist business near Bos-
ton. Must furnish some capital and be
of good character. Address L. G., care
HORTICULTURE, 11 Hamilton Place, Bos-
ton.

MISCELLANEOUS

New England Lily of the Valley forcers
will hear of something advantageous by
addressing Jans Schmidt, care of HORTI-
CULTURE, 11 Hamilton Place, Boston.

**Is Your Name In The Above
List? If Not, Why Not?**

Promptness and Good Workmanship



The above combined with personal attention to all work, and the fact that I have in my employ men especially selected for their proficiency in greenhouse heating and building assures you of the best results possible for the amount of money expended.

Private gardeners and commercial florists in all parts of the country for whom I have installed work will verify the above. (Send for list).

IS YOUR HEATING PLANT IN ORDER FOR THE COMING WINTER?
IF NOT CAN SEND YOU COMPETENT MECHANICS AT ONCE.

Everything for Heating and Ventilating, Grates,
Smoke Boxes, Etc.

WILLIAM H. LUTTON, West Side Ave. Station, JERSEY CITY, N. J.

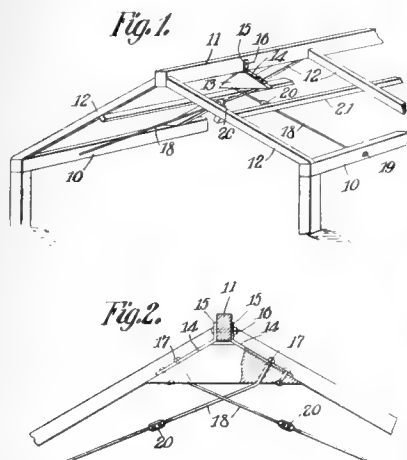
Tel. 412 R. Bergen

Eastern Agent Furman Boilers, write for prices

SOME RECENTLY INVENTED APPLIANCES

IMPROVEMENTS IN ROOF CONSTRUCTION.

Herman Thaden of Atlanta, Ga., has obtained a patent on the improvement in roof construction indicated in the accompanying illustration. Fig. 1 is a perspective view of a skeleton roof embodying the invention. Fig. 2 is a view, partly in vertical section and



partly the side elevation, of the means for attaching to the ridge of the roof structure. Mr. Thaden claims in this invention the following:

In a roof structure, a ridge, wall plates spaced upon opposite sides of the ridge, rafters extending from the plates to the ridge, truss-rods running from the wall plates in reversely-inclined upward directions, and approaching near the rafters at their lower ends, a block yieldingly secured to the ridge, and connecting the truss-rods and ridge and arranged to equalize the strain upon the truss-rods, and purlins carried upon the truss-rods and positioned to support the rafters intermediate their ends.

FLORISTS' PLANT STAND.

We reproduce herewith photographs showing front and rear view of a plant stand, which is sent to us by the George Wittbold Company.

The stands are very light, made of galvanized iron, and they can be used as a vase. They telescope, so that a great many stands will take no more room than one. Mr. Wittbold, who does probably the largest amount of

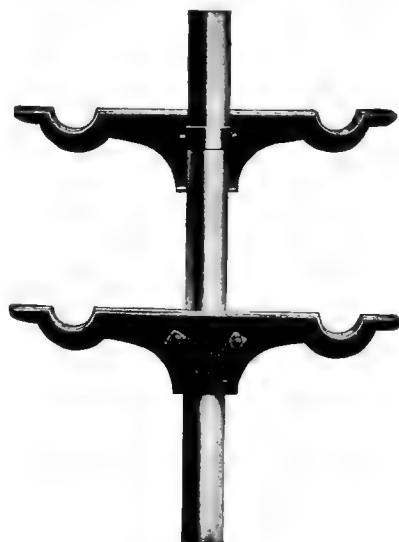


decorating of this kind in Chicago, states that he has found it to be very valuable in his work.



A SERVICEABLE GREENHOUSE BRACKET.

The "Economy Bracket," of which a picture is here shown, seems to present the maximum of convenience, strength and beauty with the minimum of obstruction and expense. Its value as space saver, a convenience for the accommodation of shelves for



(Showing Method of Fastening.)

seedlings, etc., and for raising things toward the light when desired, will be apparent to every greenhouse man without further explanation. It is recommended by Patten & Co., F. H. Kramer, S. J. Goddard and other well-known growers. See advertisement of Buxton & Allard in this issue.

TO OUR READERS.

You will confer upon us a special favor if you will scan the advertisements, as they appear from week to week, and favor with your patronage the firms there represented whenever you possibly can. A reference to HORTICULTURE when sending for goods will be a kind and thoughtful courtesy, which will be of far reaching benefit to us, and will, as such be deeply appreciated.

BETWEEN YOU AND ME, What do you think of the Buyers' Directory and Ready Reference Guide of HORTICULTURE? Cent a word! Cheap and Efficient Advertising, I call it.

Tobacco Paper "NICO-FUME" LIQUID

IS THE
**STRONGEST,
BEST PACKED,
EASIEST APPLIED.**

24 sheets.....	\$ 0.75
144 sheets.....	3.50
288 sheets.....	6.50
1728 sheets.....	35.10

**Furnishes the
Most Nicotine for the Money!**

... Manufactured by ...
THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

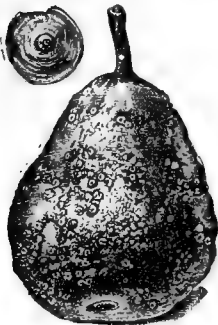
OVER 40% NICOTINE
By far the
CHEAPEST.

JUS NOTE PRICES!

Pint.....	\$ 1.50
1/2 Gallon.....	5.50
Gallon.....	10.50
5 Gallons.....	47.25

"HORICUM"

TRADE MARK



San Jose Scale on a Pear.

HAMMOND'S SLUG SHOT WORKS.

"HORICUM" A Scale Killer and Fungicide

A preparation for the destruction of the "SAN JOSE SCALE"; carefully prepared and put up in packages for general use.

"HORICUM" can be obtained from many of the Seedsmen in the United States. A description of the article is aptly told in the pamphlet. It is put up in quarts and gallons to 50 gallon barrels. It is the Lime, Sulphur, and Salt combination, concentrated.

ABOUT "HORICUM"

Glenside, Pa., March 31, 1906.

Hammond's Slug Shot Works, Fishkill-on-Hudson, N. Y.

Gentlemen: Seeing "Horicum" mentioned in Monthly Bulletin of Div. of Zoology, Penna., I would thank you to inform me where I can get a supply, say about a gallon, for trial. The San Jose Scale is very bad around this section and could no doubt push sale of the solution, especially as it is spoken of so highly in the above mentioned Bulletin.

P. S. Glenside is twelve miles from Philadelphia.

Yours respectfully, H. J. HINDS.

Kills San Jose.

Send for Pamphlet on "Bugs and Blights" to B. Hammond, Fishkill-on-Hudson, N. Y.

NIKOTEENAPHIS PUNK

THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
STRONGEST AND MOST UNIFORM

PRICE 60¢ PER BOX OF 10 LONG SHEETS \$6.50 PER CASE OF 12 BOXES.

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LIQUID

FOR SPRAYING OR VAPORIZING
PRICE \$1.50 PER PINT BOTTLE \$13.00 PER CASE OF 10 PINT BOTTLES.

NICOTINE MFG. CO. ST. LOUIS MO.

RHODES DOUBLE OUT PRUNING SHEAR



PAT.

RHODES MFG. CO.

Dept. 4-

GRAND RAPIDS, MICH.

Cuts from both sides of limb and does not bruise the bark. We pay Express charges on all orders. Write for circular and prices.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Put New Life in Your
Gardens
USE

Wizard Brand

Manures

Every Greenhouse operator and gardener knows that pure Sheep Manure is the most efficient and satisfactory fertilizer for putting new life and growing power into his gardens and the strongest plants—brightest foliage—most beautiful and perfect blooms result from its liberal use in the Spring.

Wizard Brand Pulverized
Sheep Manure

is absolutely pure. It is the best and most economical Greenhouse and Garden fertilizer on the market. Write today for prices and booklet. All kinds of dried manures, shredded or pulverized for sale.

THE PULVERIZED MANURE CO.
31 Exchange Avenue, CHICAGO

In ordering goods please add "I saw it in HORTICULTURE."

Standard Flower POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money

W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.



STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 2 1/2 " " " 5.25	60 8 " " " 3.00
1500 3 " " " 6.00	HAND MADE
1000 3 " " " 5.00	48 9 in. pots in crate \$3.60
800 3 1/2 " " " 5.80	48 10 " " " 4.80
500 4 " " " 4.50	24 11 " " " 3.60
320 5 " " " 4.51	24 12 " " " 4.80
144 6 " " " 3.16	6 16 " " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Century Insecticide DEATH TO INSECTS

Cheapest and best on market. Once used, always used. Positively kills green and black fly, mealy bugs, red spider, scale, thrips or any insect on flowers, plants, trees, vegetables, etc. Will not injure scent or color the most delicate flowers and foliage. Also sure death to Gypsy and Tussock Moths. Especially adapted for Roses, Carnations, Chrysanthemums, Heliotropes, Smilax and Ferns. Handled by Leading Seedsmen. \$2.25 per can of 5 Gallons. Also sold in barrels of 25 and 50 gallons. Prepared by W. H. KULD, NORWOOD, MASS.

USE THE BEST.

Economy Greenhouse Brackets

are used by leading growers everywhere. Send for price list and descriptive circular.

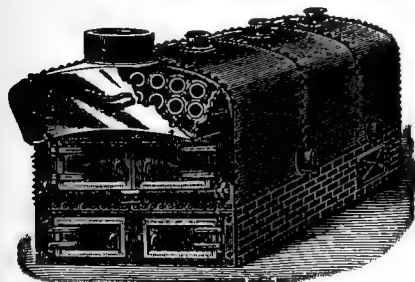
BUXTON & ALLARD, Dept. A, Nashua, N. H.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

35 Erie St., CHICAGO.



Boilers made of Steel Boiler Plate; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

Clipper Lawn Mower Co. DIXON, ILL.

The Mower

that will kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-inch Mower \$5; No. 2—15-inch Mower \$6; No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8. Send draft money-order or registered letter. In writing advertisers, mention Horticulture

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Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failure of Others."

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Box 9, National Union Building
Washington, D. C.

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.



THE HEART OF THE MATTER IS
ALL HEART SUN DRIED CYPRESS



GREENHOUSE MATERIAL

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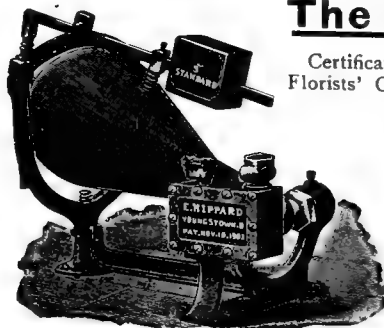
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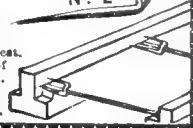
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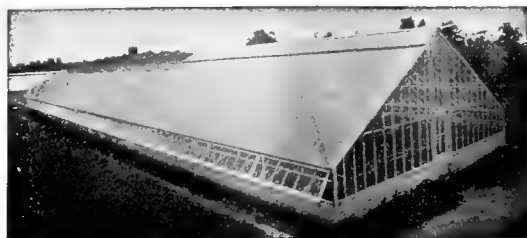
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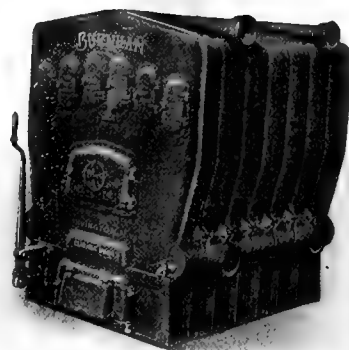
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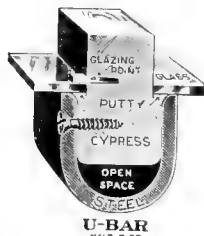
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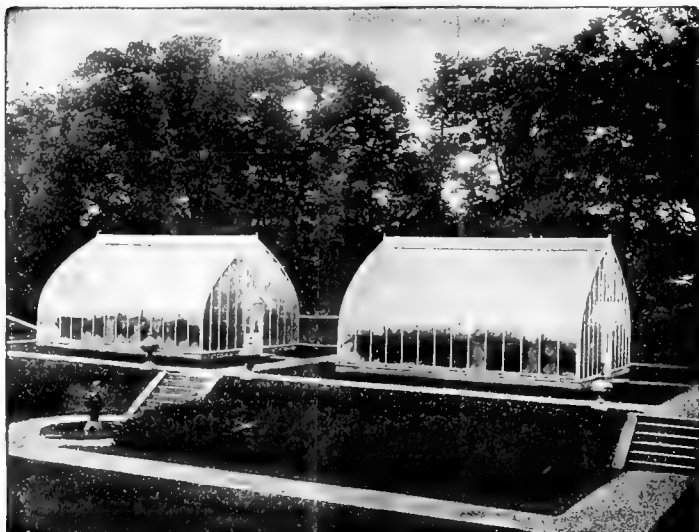
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construction uses the U-Bar — we control that patent. Send for catalog. **Pierson U-Bar Company, Designers and Builders U-Bar Greenhouses,** Metropolitan Building, Fourth Avenue and 23rd Street, New York.



HORTICULTURE

Vol. V.

MARCH 9, 1907

No. 10



ROSE ARBOR OF BALTIMORE BELLE AND QUEEN OF PRAIRIE
Dana Island, Glen Cove, N. Y.

Photo by J. J. Johnston

Devoted to the
**FLORIST, PLANTSMAN,
LANDSCAPE GARDENER**
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Kindred Interests

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EVERY SATURDAY
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KILLARNEY

THE FAMOUS IRISH HYBRID TEA ROSE

The Greatest Pink Rose For Forcing Purposes In Existence.

It makes a strong upright bush, with beautiful, deep bronzy green foliage. It is wonderfully free blooming, bearing its large, long, pointed buds and massive flowers on long, stiff, heavy shoots; in color it is an exquisite shade of deep, brilliant, sparkling shell pink; flowers of enormous size, with thick petals of great substance and delightful tea fragrance. It is the greatest pink rose in existence for forcing and finest of all roses for out door culture. It is perfectly hardy, a constant bloomer, and one of the World's great New Roses. We have the largest stock of this variety in America, all on own roots. The demand is great, and stock is moving rapidly. Let us have your order to day.

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We have also in stock upwards of 1000 different varieties of Roses of various sizes, including all the new and popular varieties as well as old stand-bys. Send for

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SUPPLEMENT
HORTICULTURE, Vol. V, No. 10
MARCH 9, 1907

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Catalogue of varieties will be mailed free upon application.

Selected 2 year-old Plants, Doz., \$3.50; 100, \$25.00. Also Hybrid Tea Roses, Best Hardy Sorts, Doz., \$5.00; 100, \$35.00.

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The above grafted from 2 1-4 inch pots \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1-2 inch pots, repotted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

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OUR GUARANTEE GOES WITH EVERY PLANT

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Strong, healthy, well-rooted cuttings, ready Dec. 1st; price \$2.50 per hundred or \$20.00 per thousand.

Try our strong, healthy, western grown wood from the best corn soil in Illinois.

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We are now booking orders for March delivery.

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FINEST NEW WHITE HYBRID ROSE

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ROSES

STRONG DORMANT PLANTS

American Beauty, Clothilde Soupert, Gloire de Dijon, Kaiserin Augusta Victoria, La France, Mad. Caroline Testout, Frau Karl Druschki, Crimson Rambler, Baby Rambler, Dorothy Perkins, etc., etc., **SUITABLE FOR FORCING.**

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Now that we give our entire attention to the

HIGHEST GRADE SEEDS, BULBS and PLANTS

We shall endeavor at all times to be the first in the field to offer meritorious novelties introduced in Europe and America.

We offer now the **latest European Novelty of importance** for delivery in April, 1907

ROSE CHARLOTTE KLEMM (H.P.)

(RED FRAU KARL DRUSCHKI)

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Description:—This new variety is the result of crossing "Alfred Colomb" (H.P.) with "Cramoisi-Superieur" (Bengal), and will in short time outrival any of the late introductions in Hybrid Perpetuals. Its color is distinct in its class. Rose growers of Europe are at loss to describe it properly in order to let the reader imagine the richness of color. The introducer calls it: Bright **glowing** crimson; this might come nearest to it. The shade has no equal among roses. The flowers are all quite large, loosely filled and extremely double. Foliage is luxuriant the entire season and is seldom troubled with mildew or rust, not even in unfavorable weather. Most flowers are borne singly and are the first and last on the scene. It has all the qualities to make it one of the most popular Garden Roses in existence.

PRICE: Extra Strong Plants, \$2.50 each

As the quantity is limited and we desire to place this novelty in as many hands as possible, we shall supply not more than two plants to any one customer.

IMPORTANT NOTICE

The entire Stock for 1907 of our newly introduced

"Gladiolus Harvard"

is now sold and we regret to say we are unable to accept any further orders.



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Rare and Choice Dahlias

We offer over Four Hundred of the choicest varieties of this popular flower and shall be pleased to mail free of charge our complete catalogue with full descriptions and illustrations.

We list nearly twenty of the rarest kinds, which cannot be duplicated from any other source in the country.

A WORD ABOUT

Rawson's Seeds

The following testimonial received only a short time ago is ample proof of the "High Quality Seeds" we furnish:

Elizabeth, N. J., Jan. 28, 1907

Gentlemen:

We are much pleased to say that the seeds we received from you have proved to be of very good quality. It was the last lot of seeds we put in, but they have germinated fine and will be ahead of the others nevertheless.

We are today mailing you another order for seeds.

Respectfully Yours

(Signed) THE ELIZABETH NURSERY CO.

We issue the following catalogues, which we shall be glad to mail free of charge:

Rawson's Garden Manual for 1907, the most elaborate catalogue published this year.

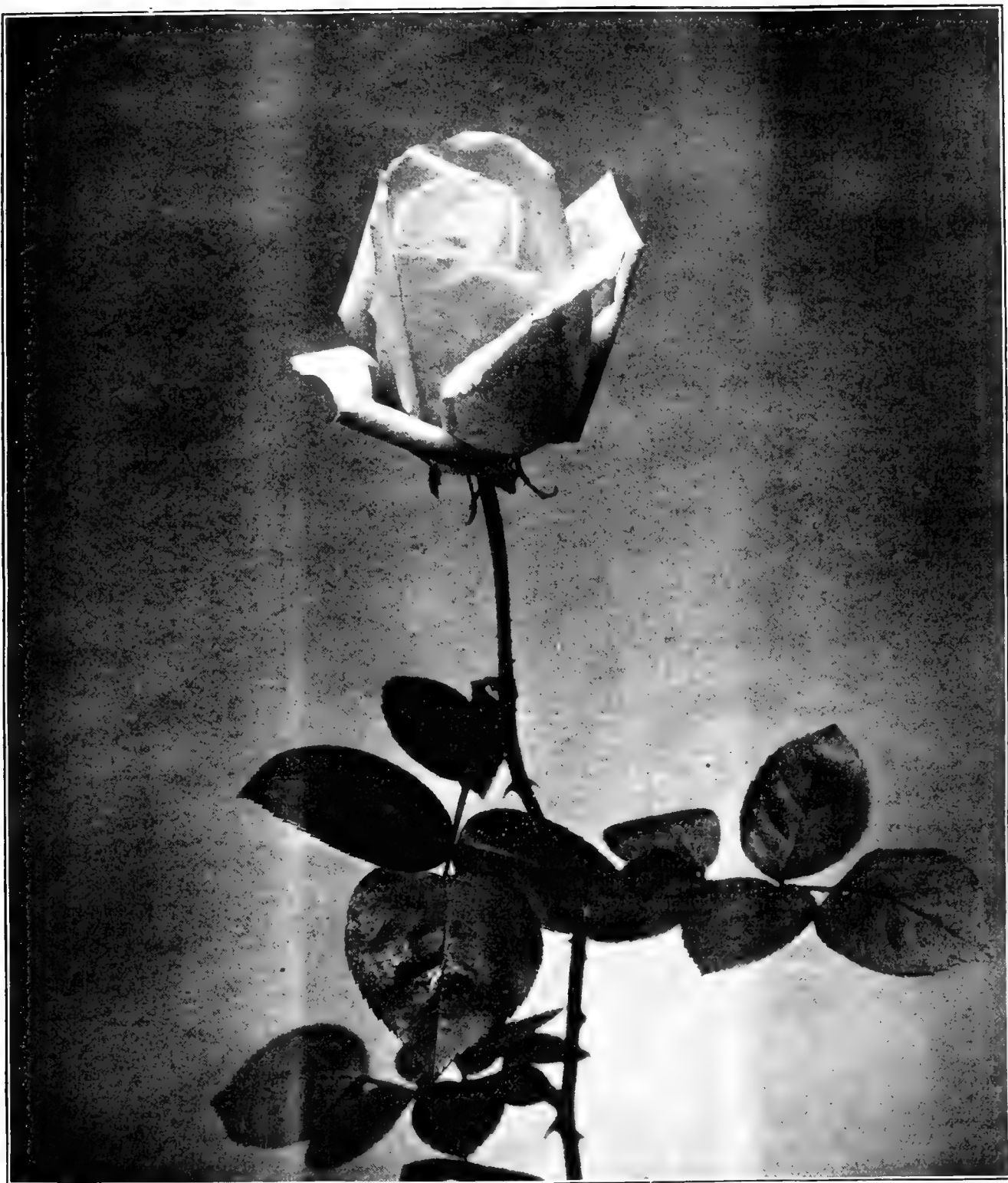
Rawson's Wholesale Florist Price List. This is mailed to the trade only and contains everything in Flower seeds and Bulbs.

Rawson's Special Price List for Market Gardeners. This again is for the trade only and contains all vegetables, particularly our own strains, for which we have become world famous.

W. W. RAWSON & CO.

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White Killarney



This handsome sport from the popular Killarney promises to take high rank among the useful commercial roses for cut flower use as well as for hardy garden planting. The sport originated at Waban Rose Conservatories, Natick, Mass., and Mr. Montgomery will

propagate it and offer it to the trade in due time. The flower is white, with a faint tinge of creamy blush in the heart of the bud. It is a heavier and more double flower than the parent variety and is very fragrant. It will be useful both winter and summer.

The Sunlight Problem

Owing to the unusually long continued dark weather which we have experienced during the present winter, the importance of the sunlight problem, which is always of great interest to rose growers, has been forcibly impressed upon us. Now is the time when all our bug-bears rise before us, wide houses vs. narrow, steep vs. flat, ridge and furrow vs. separate, and so on through all the list.

Theoretically, of course, the problem is very simple. All you have to do is to pitch your roof so that it will catch the largest number of rays of light during the shortest days, and there you are, nothing left for you to do but produce the goods. Unfortunately, this plan at the present day doesn't work out well in practice and we are compelled by the high cost of materials and labor to seek another course.

The question as it appears to me then is this; in order to secure cheap construction, what per cent. of the total possible sunlight can we sacrifice without lowering the per cent. of profit on our investments? So far, the solution of this problem has seemed to be an almost hopeless task, but if I may judge from what I have seen recently, should say that the near future ought to produce some sunlight facts which will remove us from the realm of the "rule of the thumb."

For some time past Dr. Geo. E. Stone, of the Massachusetts Experiment Station, has been conducting a large number of sunlight tests by an original and very ingenious chemical determination. His method has proven very accurate in practice and the data which he has compiled will, I firmly believe, go far to settle the question for the grower as to what is the best type of house suited to his particular requirements. Dr. Stone has promised to publish the results of his investigations and I am sure they will prove interesting, not only to the grower, but also to the horticultural building companies as well; for, these latter have not yet such a monopoly of all building knowledge as some of their advertisements, with the catchy phrases, would lead us to believe.

During the month of February, under the direction of Dr. Stone, I was enabled to make a few light tests, and the results of at least two of them have a practical bearing. No doubt we have all heard the old story of the light being stronger directly beneath the glass than it is at any considerable distance from it. When wide houses were first built the cry was that the light must be weak so far from the glass. Well, possibly it may be and the thing for us to do is to find out, if such be the case, what is the limit of width for a house. Certainly it is not forty feet, for I have found with the method mentioned above, and it is a very sensitive light test, that there is absolutely no difference in the intensity of the light over the back bed and the front bed, when the rays enter from the south side of the house (that is to say, before the sun has crossed the ridge.) This of course does not settle the question but I am convinced that, as far as loss of light is concerned, we will have to go considerably beyond forty feet to find it.

One other thing which I have determined is that we cannot always tell by the "looks" of a house exactly how much sunlight a particular form of construction will admit. For example: I was particularly anxious to test the difference between glass sixteen inches wide and twenty-four inches wide, in standard iron frame houses with the conventional rafters, one having the sash bars spaced sixteen inches apart and the other twenty-four inches. I was, however, unable to do so, and for this reason: the rafters in the house with the twenty-four

inch glass were five inches in depth, whereas those in the one with sixteen inch glass were only four inches. From all appearances, as far as the eye could judge, the wide glass certainly looked the lighter, but, nevertheless, by actual tests, reckoning the out-of-doors light at one hundred per cent., the four inch rafter and sixteen inch glass gave eighty per cent. of possible light, while the five inch rafter and twenty-four inch glass gave seventy-five per cent. While in this case I did not find out what I started to do, I did learn that, with the facts obtained, it does not take an expert at juggling figures to discover readily what the limit in depth of rafters ought to be for an iron frame house.

As the old saying goes, "Facts are stubborn things," but it is to these we must stick if we would solve the problems which confront us.

Alex. Montgomery, Jr.

Chrysanthemum Notes

At this season of the year, every lover of the chrysanthemum is turning over his stock, sifting out varieties that are superseded by more promising rivals, weighing many old favorites in the balance, and if found wanting, reluctantly perhaps, consigning them to oblivion, few having room for sentiment in the growing of this popular flower.

But it seems a pity that some, at least of the smaller varieties should not be continued in cultivation, for many of them are beautiful in color and form, though not up to the required standard in size, and the time will come when beauty will be a greater consideration than size, for every purpose, excepting perhaps the exhibition table, and properly so, for comparatively few have the privilege of attending exhibitions, while hosts of people enjoy a few flowers in their homes.

Commercial chrysanthemums should embrace flowers grown in every style, to suit the individual fancies of the flower buyers. Large blooms for those who care for them, dainty natural grown sprays for the purely aesthetic tastes, and singles and pompons for the poorer classes, who are unable to purchase the large individual blooms, and which are also more suitable for the surroundings for which they are intended, and often among this class we see flowers appreciated and cared for until the last vestige of life remains, and these go far to engender that love for flowers that is most desirable and of inestimable importance to the florist who grows them.

Grown naturally without disbudding, chrysanthemums could be sold at a price which would place them within the reach of thousands who are unable at the present prices to enjoy such a luxury, thereby adding impetus to the sale of such flowers, and consequently bringing increased revenue to the man who grows them.

A naturally grown chrysanthemum plant is most serviceable for decorative purposes, and makes a grand show, giving good value for the money invested. This should impress the consideration of the private gardener. Many of the single varieties are particularly well adapted for this kind of work, and as they are yearly becoming more popular, a great future is in store for them.

Alfred J. Lovelace.

The Mail Order Trade

EXISTING CONDITIONS AND DEFECTS.

When Abraham Lincoln expressed the opinion that "you can fool some of the people all the time, and all of the people some of the time, but you can't fool all the people all the time," it seems to have been an admonition to the mail order florist, who in many instances, however, has not placed much credence in this trite but homely piece of advice. There has never been a time in our up-building when we have had such a period of prosperity as we are having today, and while I do not want to be classed among the pessimists yet it seems to me that a warning note of impending danger should be sounded lest in our desire for quick returns we forget the future. I am speaking exclusively of the mail order plant trade. The matter looks to me like this. Through the expenditure of vast sums of money the mail order man has gradually won the confidence of a skeptical public. Years of strenuous effort, and not unfrequently actual privation has been the cost of making the mail order trade what it is today. Great establishments have come into being and fortunes have been amassed. Millions of American homes have become fairer because of the mail order man. Pluck and perseverance have been the passports to better days. He is a benefactor of mankind—in short he is the advance agent of Nature in her happiest mood. He has, as a rule, kept faith with the public, and as a result he represents today the highest type of the mail order business man, and, let me add, his prosperity has not been won without the hardest kind of a fight.

Lured on with the mistaken idea of quick riches there have sprung into existence hundreds of beginners in our business, whose chief asset is hopefulness. In some cases by dint of perseverance they have made rapid strides and deservingly so. But the class I wish to call especial attention to irrespective of the extent or age of their business is the one who offers the public certain specific varieties, through their advertising and literature, secures payment in advance for the same and then sends any old thing as a substitute, not having the varieties advertised and not intending to have them. What is the result from the buyer's standpoint? The plants are set out and hope runs high. Tenderly watched and cared for until the first buds appear, and then intense expectancy. The descriptions are read and re-read with visions of large, double flowers, long stems, and the joy of living is materially increased. The first flower appears—or should appear in all its radiance. But, alas! with it comes the blasting of fond hopes. The dazzling beauty let us say of Killarney is found reflected in Pink Daily! Sorrow and anger struggle for supremacy—anger wins and the mail order man, honest or dishonest, is forever banished from the good graces of that buyer. Thus the money expended to secure that customer (and it rarely costs less than seventy-five cents to secure a new customer) is thrown to the winds and

he becomes a living menace to our business forevermore. I do not think I am exaggerating the consequences of substitution in drawing these conclusions. But what of the seller?

Having secured the order—and more important, the money—he feels that two-thirds of the transaction is finished. The plants are shipped, and as far as he is concerned the incident is closed. But it isn't. He not only loses that customer, and indirectly many more, he not only does the legitimate mail order trade an irreparable injury but he takes money under false pretenses and is amenable to the United States postal laws. These are not imaginary details. I have taken considerable pains to look into the abuse and feel somewhat competent to speak on the matter.

THE REMEDY

I have always felt the necessity of the National Society giving more attention to the mail order trade as one of the most important auxiliary branches within its scope of usefulness. With the grower for the local market we have much in common, for if we succeed in interesting the masses we must of necessity prove helpful to the grower of cut flowers and miscellaneous plants which the amateur grower without glass is unable to produce and must perforce patronize the professional grower. This demand is more imminent once the interest in our products is aroused, to which end the mail order man is at all times bending his energies. Why not then solicit the aid of the S. A. F. in keeping this branch of the industry up to the highest standard of excellency. Let there be appointed at each annual meeting an impartial committee to investigate, by securing samples, the numerous plant offers made through the press and catalogues, the authenticity and reliability of the claims made, particularly as to whether or not the plants sent out are true to the labels they have and such other data that will tend to promote the best interests of the plant trade, and such information be presented at the annual meetings of the Society either publicly or to the executive committee. In this no honest man need fear the result. The means will be at hand to eradicate deception and such abuses which keep our business from that development we naturally expect and ought to have from the money and efforts continually expended. Possibly it may be said the end does not justify the means and the method is too radical. But, as I said before, an honest man need have no fear of investigation, and unless I am very much mistaken unity of action in this matter will bring the mail order trade up to a higher standard of money making possibilities and increase the efficiency and power for good of the S. A. F.



Roses Under Glass

III.

POTTING

A few days before the cuttings are ready to pot, a sufficient number of two-inch pots (this size being the recognized standard for rooted cuttings) should be collected and given a thorough cleaning, particular care being taken to remove all of the old soil from the inside of the pots. These, or as many as can be accommodated, should then be placed in a position convenient to the potting bench.

The bench intended to accommodate the young stock should also be cleaned and prepared. Considerable importance is attached to the selection of this bench. Many growers, in their desire to economize are apt to utilize the bench which has yielded the smallest and poorest crops during the season, forgetful of the fact that the conditions resulting in the failure of the old plants to produce good flowers will in all probability have a bad effect on the young stock. Stagnant air, and poor light, etc., effect conditions under which no rose will thrive and it is absurd to suppose that where old established plants have failed to do well, the young stock will prosper.

The future success or failure of roses depends to a great extent upon the care bestowed on them in the propagating bench and the period extending over the time they occupy the first pots. Therefore, we should by all means place them on a bench where they will receive abundant sunshine and air. In cleaning out the bench it is not necessary to remove all the old soil. On the contrary, leave in about two inches as this retains considerable moisture and prevents the pots from drying out as quickly as they would were the bench empty. Furthermore, the soil thus left brings the top of the pots on a level with the top of the bench, facilitating syringing and permitting the air to circulate freely among the foliage, thus reducing the danger of contracting mildew, black spot, and other diseases to which roses are subject. With the addition of a layer of sifted ashes about one inch in depth, placed there with a view to keeping the soil in the pots free from worms, the bench will be ready for the young stock.

The soil left over from last season's planting will, if it has been properly handled and cared for, be of the right texture for potting. The decomposing matter contained therein will have imparted to the soil a sufficient amount of nutriment and any additional fertilizer is unnecessary. Before it is placed on the potting bench, the soil should be sifted through a three-quarter-inch screen.

When lifting the cuttings it is advisable to take up only a few at a time. The roots are far from being elastic and if an attempt is made to spade up the entire row at once many of the roots will be left in the sand and the cuttings thus robbed will be slow to start in the pots.

When potted the roots of the cutting should occupy a position as near as possible about one-third of the distance between the surface and the bottom of the soil

leaving two-thirds of the soil underneath for the roots to work in. Too much importance cannot be attached to pressing the soil down firm. Not to the extent that it will bake when watered, but sufficient that when turned out, the soil leaves the pot in the form of a compact ball. Also, it is necessary to leave a space at least a quarter of an inch in depth between the surface of the soil and the top of the pot to hold water.

As soon as a box is filled with plants they should be carried into the house, set on the bench, and watered immediately. It is never safe to fill box after box and leave them standing about the shed exposed to draughts. The young, tender plants are very sensitive to sudden fluctuations of temperature, and soon show the effects of such mistreatment.

The first watering should be thorough in the full sense of the word. This is not meant to convey the impression that the soil must be reduced to the consistency of mud, but it is essential that all the soil be uniformly moist.

For the first four or five days until root action is fairly established, the plants will require to be shaded from the intense heat of the sun. But the same rule observed in the propagating bench is applicable to the plants in pots and the shade must be removed immediately on the sun ceasing to shine on the bench.

J. E. Simpson

Some British Favorites

A proof of the continued popularity of the "Queen of Flowers" in England is afforded by the prosperity of the National Rose Society, which was founded in 1876 by the late Rev. H. Honywood D'Ombraim. The society has a large and increasing membership, whilst its summer and autumn shows are among the most popular events of the horticultural year. The society has rendered useful service in publishing an annual, full of acceptable and up-to-date information on rose matters.

Mr. Edward Mardley, the secretary of the society, has taken great pains in preparing a list showing the number of times which the different varieties have been shown during the period 1899 to 1906. The list is a valuable index of the leading roses which find favor with the chief exhibitors. The first dozen in order are: Bessie Brown, Mildred Grant, Frau Karl Druschki, Mrs. John Laing, Ulrich Brunner, Caroline Testout, Dean Hole, Kaiserin Augusta Victoria, Mrs. W. J. Grant, A. K. Williams, Mrs. R. G. Sharman Crawford and La France. The list includes seven comparatively new Hybrid Teas and five of the older Hybrid Perpetuals. Dean Hole, the subject of the supplement issued with this number of HORTICULTURE, has come to the front very rapidly, for it was only introduced in 1904. It is a worthy specimen to commemorate the name of one who labored so zealously in the interests of his favorite flower. Dean Hole was one of the successes of the Temple show in 1904 when Messrs. A. Dickson and Sons obtained an award. In the same year they secured a gold medal from the National Rose Society for the best H. T. seedling in the show. It has proved itself

a splendid addition to the rose garden, being very vigorous in growth. The large-sized blooms of good substance are of a silvery carmine tint, with shades of salmon. Bessie Brown is also one of Messrs. Dickson's gold medal roses, the large creamy white blooms usually being well to the fore at the leading shows. They also introduced Mildred Grant, of a silvery white tint, which is recognized as a good "laster."

Frau Karl Druschki, in spite of its difficult name, has secured a firm footing as one of the best whites in commerce, and its attractive form is always included in the most successful exhibits at the shows. It is vigorous in growth and free in blossom; the flowers are boldly produced and finely formed, with wax-like petals. Its popularity is likely to further extend.

Mrs. John Laing has charmed the public for the last 20 years, and is still useful as an exhibition rose. The well shaped and globular blooms are of a very attractive rosy pink tint. Ulrich Brunner is also included in the older section. This rose with its cherry red tinted petals has been found very reliable. It is also useful for autumn culture.

Caroline Testout and Kaiserin Augusta Victoria have long passed from the novelty stage. Mrs. W. J. Grant needs but little comment for it is known and grown in America as Belle Siebrecht. A. K. Williams is another old friend, of a carmine red tint. Mrs. R. G. Sharman Crawford is a very acceptable rose pink and La France has been winning favors since 1867. The progress of the H. T.'s in the last few years has been remarkable. Raisers have paid special attention to increasing this class so that at the present time there is a wide selection from which a choice can be made. The H. T.'s may rightly claim to have the good qualities of both parents without the bad ones. There is no doubt that the hybridists have still some new developments upon which to work and these in time will further enrich the present long list of treasures in this section. What is now needed is a careful weeding out, for some of the lists are becoming over-crowded, whilst the multiplicity of varieties only confuse the buyers.

NEW INTRODUCTIONS OF 1907.

The great success of the shows last year was Walsh's new Rambler, Hiawatha. This received an award of merit from the Royal Horticultural Society in addition to other honors at leading exhibitions. The Queen of Spain, raised by Messrs. S. Bide and Sons, was also one of the most popular introductions. This is a seedling from Antoine Rivoire and a hybrid perpetual, and it has the advantage of a vigorous constitution and good lasting powers. It is of a pale flesh tint, being darker in the center, and is likely to be in favor for exhibition work. The Royal Horticultural Society has given it an award of merit. Alex. Dickson and Sons are sending out nine new roses. These include Harry Kirk, a hybrid tea which ranks amongst the firm's best productions. The color is deep golden yellow, passing to canary at edges of petals, which are very large and smooth. The fragrant flowers are of good size and form. Elizabeth Barnes, from the same firm, is of a unique tint, being satiny salmon rose, the centre being fawn, suffused with yellow, the outside of the petals is deep rosy red splashed with yellow. The blooms have a delightful fragrance.

Horticulture in the Public Schools

Editor HORTICULTURE:

Of all that transpired at our convention in Dayton last summer, the address by Mr. Hallock on teaching horticulture in the public schools, was to me the most important and far-reaching. And in your recent issue of HORTICULTURE that splendid article by Mr. Henry Saxton Adams has awakened me. As Mr. Saxton Adams says, it is not enough to have a piece of land, but the youngsters require a leader. Mr. Hallock says "need of standardizing."

On careful perusal of all documents and reports that we could obtain, we find no two schools or organizations conducting their garden-work on the same lines, but each pursuing their work according to their own ideas and as seems best to them. Great good has undoubtedly come from these disunited efforts, but greater good will undoubtedly come from concerted action, emanating from some central authority, thoroughly standardizing their work. Then why not the S. A. F. that central authority? Let it get into the most fertile field and demonstrate the work thoroughly; employ some one with a thorough practical knowledge of gardening, secure the land, buy the necessary tools, seeds, bulbs, and plants, and teach the children and their teachers how to do this work right; take photographs during the season showing the different stages of the work, and in winter when no outdoor work is to be performed, visit every school possible and show them just what had been done, and tell them how and, if necessary, give out literature telling the children all about it.

The press of the country are anxious for such good material, and once in the press then in the homes—"and what then"? What under the canopy of heaven can you do that will produce such a lasting and refining influence on humanity as teaching the children and their teachers gardening?

Flowers—the toughest kid on the streets loves a flower. Teach him how to cultivate them and his toughness will disappear. On the training of the kid depends the good citizen, and the good citizen is the bulwark of the nation. I am of the opinion that if this great work was thoroughly and practically demonstrated, that the States would awaken to do their duty in this direction, if not the nation itself. But as Mr. Adams says, to get a director who knows how to garden and to handle children "is of vital importance." I think it is the vital point, the very foundation.

I fear few of us stop to fully realize the great good this work will bring to humanity—to say nothing about the monetary consideration to our profession. Of course, this means money to get a start, but with so many large and prosperous firms throughout this great country, and the grand results bound to come to us all, surely enough can be raised to start this great work right.

I will be one to give fifty dollars a year for five years, if necessary, to start this work right, and am convinced that by that time the States, and maybe the National Government, and our many wealthy citizens will awaken to the good results and give it substantial support.

The States and the Nation itself certainly owe something to the children. Very truly yours,

W. H. Adsett.

S. Moore

HORTICULTURE

VOL. V

MARCH 9, 1907

NO. 10

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292
 WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE
 One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 05.

ADVERTISING RATES
 Per Inch, 30 inches to page \$1.00.
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times) 5 per cent.; three months (12 times) 10 per cent.;
 six months (26 times) 20 per cent.; one year (52 times) 30 per cent.
 Page and half page spaces, special rates on application.

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 Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass.
 under the Act of Congress of March 3, 1879.

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To the
Queen of
Flowers

Once more it is our prized privilege to dedicate an issue of HORTICULTURE to the Queen of Flowers. The literature and poetry of the Rose probably equals in volume the literature and poetry of all other flowers combined. From time immemorial, poets and lovers have found in the Rose a source of never-failing inspiration and sentiment. Other flowers there are that are dearly beloved and that have, by their beauty or association, incited men to noble aspirations, to patriotism and deeds of valor, but the rose has been, is, and undoubtedly always will be the most devotedly cherished, the most widely beloved of all the floral kingdom.

All
aboard for
Washington

The meeting of the American Rose Society at Washington next week should attract a large and distinguished gathering of professional horticulturists from all sections of the country. The exhibition promises to be a remarkable manifestation of the present attainments in American rose development, both in the florists' cut flower specialties and the larger domain of garden material. The awakening of our commercial establishments in the matter of rose hybridization in the past few years is already beginning to show results and this opportunity to examine a number of new home products for the first time should not be neglected. As to the social side of the event, it is pretty well known everywhere what a visit to Washington means. In no city in the land does the horticultural visitor find more cordial welcome or more open-hearted hospitality.

Sometime,
but not yet

It is unfortunate and not at all to the credit of the so-called "upper society" people of this country that they have not yet reached the stage in civilization where they can forget, for a time at least, the lines of class distinctions, throw down the barriers, and find in such a body as a society devoted to the interests of the Rose a common ground where gardener and employer, artisan and banker, all, without regard to station in social or business life, can meet and work together, actuated by a single purpose, each happy in the privilege to render good service in a good cause. The American Rose Society spent its first few years in a futile effort to "make oil and water mix" and it was only when the organization had reached the verge of dissolution that the professional element took hold and by vigorous work on the same lines as followed by other societies saved the American Rose Society and started it upon what now promises to be a successful career since which time the amateur element has continued to sift out and, we are very sorry to see, has now dwindled to a "mere handful." Sometime but not yet, the time may come when the sanguine hopes of well-meaning enthusiasts may be realized and rose lovers, amateur and professional, may be found shoulder to shoulder in the ranks, as rose lovers. "Tis a consummation devoutly to be wished," surely, but, in the meantime, let the American Rose Society keep busy on its present practical lines.

Colored Plate with this Issue

THE ROSE

"Not one of Flora's brilliant race,
A form more perfect can display;
Art could not frame more simple grace,
Nor nature take a line away."

* * *

"Ye breathe the fragrance of the longed-
for Spring,
Oh roses, Oh roses!
When nestling bluebirds on the peach
boughs swing,
And the first bud uncloses."

—Frances Bartlett.

* * *

A butterfly the wild rose wooed,
And love's sweet story told;
He drank the perfume of her lips,
And kissed her heart of gold.
The crimson blushes dyed her face,
She loved the butterfly,
But ah! he stole her kisses—
Then he passed the rosebud by;
He stole her kisses—then, alas!
He bade the rose—goodbye!
—Agnes Lockhart Hughes in Boston Trans-
script.

* * *

"The rose in the garden unfolded her bud,
And she laughed in the pride of her youth-
ful blood,
As she thought of the gardener standing
by—
He is old—so old! And he soon must die.

The full rose waxed in the warm June air,
And she spread and spread till her heart
lay bare;
And she laughed once more as she heard
his tread—
He is older now! He will soon be dead!

But the breeze of the morning blew, and
found
That the leaves of the blown rose strewed
the ground;
And he came at noon, the gardener old,
And he raked them gently under the mould.

And I wove the thing to a random rhyme,
For the rose is Beauty, the gardener,
Time."

—Austin Dobson.

* * *

(A favorite poem of Mr. Gladstone.)
It was peeping through the brambles,
That little wild white rose,
Where the hawthorn hedge was planted
My garden to enclose.
All beyond was fern or heather
On the breezy open moor;
All within was sun and shelter,
And the wealth of beauty's store.
But I did not heed the fragrance
Of flowers or of tree,
For my eyes were on that rosebud,
And it grew too high for me.

In vain I strove to reach it.
Through the tangled mass of green—
It only smiled and nodded
Behind its thorny screen.
Yet through that summer morning
I lingered near the spot;
Oh! why do things look sweeter
If we possess them not?
My garden buds were blooming,
But all that I could see
Was that little mocking wild rose
Hanging just too high for me.

So in life's wilder garden,
There are buds of promise, too,
Beyond our reach to gather,
But not beyond our view;
And like the little charmer
That tempted me astray,
They steal out half the brightness
Of many a summer day.
Oh! hearts that fail for longing
For some forbidden tree,
Look up and learn a lesson
From that wild rose and me.

'Tis wiser far to number
The blossoms at my feet,
Than ever to be sighing
For just one bud more sweet.
My sunbeams and my shadows
Fall from a pierced hand;
I can better trust His wisdom
Since His heart I understand.
And may be in the morning
When His blessed face I see,
He will tell me why my white rose
Grew just too high for me.

"Dear flower of heaven and love! thou
glorious thing
That lookest out the garden nooks among;
Rose, that art ever fair and ever young;
Was it some angel on invisible wing
Hover'd around thy fragrant sleep, to fling
His glowing mantle of warm sunset hues
O'er thy unfolding petals, wet with dew,
Such as the flower-fays to Titania bring?
O flower of thousand memories and
dreams,
That take the heart with faintness, while
we gaze
On the rich depths of thy inwoven maze;
From the green banks of Eden's blessed
streams
I dream'd thee brought, of brighter days
to tell
Long pass'd, but promised yet with us
to dwell."

* * *

God save you! Splendor of the Spring,
Blazing
The jewels strung upon your spray
Unveiling your vermilion
To the sun
In its virginal array.

You see your face's cinnabar
From afar
Multiplied amid the wheat:
Amid the wheat whose vivid green
Shines more sheen
Against your fellows set in it.

Then here, where by your sweets suspire,
Filled with fire,
Despite the triple sisters' sad,
I do design to make my song
Match the long
Sweep of the wings that Horace had.

Let others sing the Pink's soft hues
If they choose
Or of the Lily's silvery flower,
Or of the golden Fleur-de-lis,
She that is
Emblem of our Prince's power.

But I, while voice is mine to sing,
Still will fling
All my praise before the Rose,
The more since she too bears the name
Given by Fame
To Her who all my worship owes.
(Written in 1550. Translation by Wynd-
ham.)

PAYING A ROSE FOR RENT.

In Manheim, Pennsylvania, stands the Zion Lutheran Church, which was gathered together by Baron William Stiegel, who was the first glass and iron manufacturer of note in this country. He came to America in 1750, with a fortune which would be equal today to a million dollars, and founded and built and named Manheim. He was a man of deep spiritual and religious belief, and of profound sentiment, and when in 1771 he gave the land to the church, this clause was in the indenture:

"Yielding and paying therefor unto the said Henry William Stiegel, his heirs or assigns, at the said town of Manheim, in the Month of June Yearly, forever hereafter, the rent of ONE RED ROSE, if the same shall be lawfully demanded."

Nothing more touching can be imagined than the fulfilment each year of this beautiful and symbolic ceremony of payment. The little town is rich in roses, and these are gathered freely for the church service, when "One Red Rose" is still paid to the heirs of the sainted old baron, who died in 1778, broken in health and fortunes, even having languished in jail some time for debt. A new church was erected on the site of the old one in 1892, and in a beautiful memorial window the decoration of the red rose commemorates the sentiment of its benefactor.

The Rose Tavern, in the neighboring

town of Bethlehem, stands on land granted for the site of a tavern by William Penn, for the yearly rental of "One Red Rose."

In England the payment of a rose as rent was often known. The Bishop of Ely leased Ely house in 1576 to Sir Christopher Hatton, Queen Elizabeth's handsome Lord Chancellor, for a red rose to be paid on midsummer day, ten loads of hay and ten pounds per annum, and he and his Episcopal successors reserved the right of walking in the gardens and gathering twenty bushels of roses yearly. In France there was a feudal right to demand a payment of roses for the making of rose water.

From "Old-Time Gardens," by Alice Morse Earle. Published by the Macmillan Company.

"TIGHTENING OF THE TIES."

Editor HORTICULTURE:

"Tightening of the Ties" in your issue of February 23 is well put. I thank you very much for the prominence you gave the subject in HORTICULTURE. Gardeners' and Florists' clubs are organized for a definite purpose, and in our exchange of ideas along business lines we begin to realize that we are receiving a practical education; our minds are being broadened, and we become conscious of the fact that our calling is not composed of several petty groups, the one divided against the other. The end of such division is failure.

May the spirit of brotherhood be a mighty force for the betterment of our life's work. Let it be the momentum that shall enable us to see "eye to eye," and we shall go hand in hand with one grand purpose in life, and so may be of some help to our fellow-man, and our calling—the greatest ever given to man—will become one and inseparable.

THOS. H. WESTWOOD,
Pres. G. & F. Club of Boston.

"THOU CAN'ST NOT SAY I DID IT."

"The reference in this column a few weeks ago to a reported organization of Greek flower buyers has called forth a meaningless sermon from a Boston editor."

Florists' Exchange.

Our irritable but always esteemed contemporary is once more "off the track." Its simple faith in "reference in this column" as an exclusive source of information for the rest of the world is just admirable but its anxiety to prove innocence when no charge had been made against it has a suspicious look.

"When you see a tom cat with his whiskers full of feathers, do not say 'Canary'—he'll take offense."

Frau Karl Druschki, alias Schnee-konigin, alias Snow Queen; Kaiserin Augusta Victoria, alias White American Beauty! Wanted, a fearless nomenclature committee.

A bill is now before the Wisconsin state legislature, providing for the creation of a state park of the lands surrounding Devil's Lake. The property is located about midway between Milwaukee and Madison, and has excellent scenic and geological attractions. The bill has a more than even chance of being enacted into law.

WHOLESOME CHESTNUTS.

Seedlings of all kinds as fast as they show fitness should be pricked off into flats, and others more advanced and already pricked off and crowding should be either transplanted into other flats or potted. Pots are preferable for many kinds of bedding plants as well as for nearly everything intended ultimately for pot culture for decorative purposes. Lobelias, salvias, begonias and several other things are better in pots when offered for sale; as for coleus and heliotrope they should of course be potted right out of the sand. Lobelia at first may be pricked off into flats in small clumps, and when these grow to decent size they can be potted and grown on until they flower.

Lettuce for early planting should now be sown. Celery for early planting should now be so far advanced as to make pricking off necessary. Keep celery growing ahead without a check. If you have never tried the experiment of sowing a little onion seed in the greenhouse you should lose no time in doing so; when they are well up over the soil in the flat, prick off into other flats and leave them there until time to plant them out, or later pot them into small pots after they get a fair size in the flats; that is the way to raise exhibition onions. Don't leave cabbage or cauliflower too long in the seed boxes; if you do they will have a hard time recovering after being shifted.

It is now time to think about dahlias. If you intend buying any of the good varieties recently introduced, do not put it off too long if only the good standard sorts are wanted. By getting strong bulbs now you may be able to increase the stock by propagation before planting time comes. If you own stock from which you intend to propagate, take in for that purpose only such bulbs as you are sure are correctly named. Place them on a bench, throw some leaf mould over them, and wait until the cuttings appear, but don't wait until they are long, spindly and soft; take them off when they are short and stocky, with a bit of a heel if possible; put them in the sand to root; shade them for a few days absolutely, and after that only when the sunlight directly strikes them; give the cuttings sufficient water to keep them from wilting; pot them up whenever they have emitted short roots; shade them then for a day or two; after that give them all the light possible and grow them cool. Be careful at all times in labeling, because if you intend selling the plants a neglect in that particular will come back on you after the plants bloom. Don't forget that single dahlias are almost unsurpassed for cutting from all through the late summer, and are always gorgeous to look at whether growing or cut.

Cyclamen seedlings are now, or should be well advanced in the flats into which they were pricked from the seed pan. On no account leave them to get crowded in those flats; rather transplant them carefully into others, and then as soon as they have made sufficient progress in growth shift them into pots of a suitable size.

Pansies in flats in the greenhouse should not be allowed to remain there much longer. Remove them to cold

frames, flats and all, or in a very little while plant them in good soil in the frames. Give the frames where pansies were planted in the fall all the air and light possible from now on; give attention to watering; remove dead flowers and leaves, taking care at all times, however, that sufficient covering is provided at nightfall to meet all emergencies.

Take off violet cuttings and root them without delay. Look over canna roots and put up all required of the French type, examining carefully every root before potting to avoid potting dead roots. Don't be too severe in dividing choice cannas; rather err on the safe side and it will be found more satisfactory in the end.

Water azaleas liberally now, but do not syringe. It is much better to have a liberal proportion of the blooms on azaleas only half open when selling time comes. They may not look so gorgeous in that stage, but the majority of buyers now know what a plant in that condition means for service.

Hydrangeas sold well last Easter. It is of course now too late to suggest them if they are not already under way, but if they are look well after them and get the bloom in as good condition as possible. There are many devices within the range of possibility to tempt buyers of miscellaneous bulbous flowers. I remember that last year a great many pansy plants were sold in small fancy baskets and dishes; there will likely be more sold this year. Small hampers and baskets filled artistically have an irresistible charm. Pans of tulips are never long standing unsold. It will be of interest to know that Messrs. R. & J. Farquhar & Co. have something new in *Primula obconica* that is not only a novelty but a sensational one. That firm has given us many good things, such as the Farquhar rose, *Lilium philippense*, red *Begonia Erfordii*, and ever so many other things, and to my knowledge they never gave the stamp of their approval to anything that turned out a failure. "Facts are chieftains that winna ding."

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The American Carnation. C. W. Ward. Price, \$3.50.

Manual of the Trees of North America. C. S. Sargent. Price, \$6.00.

The First County Park System. F. W. Kelsey. Price, \$1.25.

The Horticulturist's Rule-Book. Bailey. Price, 75 cents.

Chrysanthemum Manual. Smith. Price, 40 cents.

The Chrysanthemum. Herrington. Price, 50 cents.

How to Make Money Growing Violets. Saltford. Price, 25 cents.

Dwarf Fruit Trees. Waugh. Price, 50 cents.

AT THE WIDENER CONSERVATORIES.

One of the most palatial country seats in the vicinity of Philadelphia is that of P. A. B. Widener at Ogontz. The gardens and conservatories have been under the care of William Kleinheinz for many years and have become famous under his superintendence, not only in this vicinity but outside also by reason of success of their products on the exhibition tables in distant cities.

At the present writing (mid-February) there are many interesting items in the conservatories which will well repay a visit by the horticultural student. The several houses of carnations are in prize-winning shape. Lady Bountiful we have never seen finer; Haines is also in magnificent shape; Patten is fine but rather late being reluctant and unsatisfactory until January; Robert Craig, Harlowarden and several other varieties are noticeably good. John Kuhn's new pink seedling is being tested here and looks promising. The flower is a soft rose, a pure self when first open but paler on the outer half of the petals when the flower is older. Mr. Kleinheinz considers this the best keeper of any variety he knows.

A house of *antirrhinums* is in splendid shape at present with flower spikes a foot and over in length and of refined colors—mostly selfs, although there are two very choice variegated sorts.

One would say that there could not be much to admire in a bench of such a common thing as double *Von Sion* daffodils; but our attention was arrested by one which was the largest and most perfectly formed we have ever seen—an ideal flower. The cyclamens are a good strain and well grown. There is a white variety especially which for size and purity is simply magnificent. If this is carefully watched we have in it the forerunner of a race of giant flowers that will make our present gigantesms and grandiflorums look like pigmies. This is no exaggeration. The writer may claim with all due modesty to have seen as many fine cyclamens during the past twenty-five years as any and more than most.

Sweet peas are grown here quite extensively, the varieties being mostly Florence Denzer for white and Christmas for pink. A number of new Zvolanek seedlings are on trial, one of the best being Mrs. E. Wild, a ruby. There is also good pale blue—unnamed.

The rose houses are in fine condition, but there are no novelties calling for special mention. The palm houses and fern houses are extensive and the stock unusually fine. The fruit houses will be a blaze of bloom very soon. I asked Mr. Kleinheinz if Mr. Widener took a keen interest in all this glory and he answered that he did. That Mr. Widener came as often as he could to walk around—and then added with that charming naivette for which he is famous—"but you see Mr. Widener must go to town pretty often too, so he can make some money to pay for all this with."

GEORGE C. WATSON.

You'll find something worth reading on every page of this paper.

Rose Little Dot



By courtesy of F. W. Keasey

This pretty little hardy rose is one of Jackson Dawson's hybrids, *Rosa multiflora* x *Clotilde Soupert*. The flowers are flesh color and very pro-

fuse, in fact too much so, for Mr. Dawson tells us that it blooms so incessantly that he could never find wood enough from which to propagate it in

sufficient quantities to give it any wide distribution. It received honorable mention from the Massachusetts Horticultural Society when exhibited

A NEW INSTRUCTOR AT AMHERST.

C. A. Bishop of Waltham, Mass., has been appointed instructor pro tem. in floriculture at Massachusetts Agricultural College to fill out the current semester in place of Francis Canning, who leaves this week to take charge of an estate in Altoona, Pennsylvania. Mr. Bishop has had a thorough training in various lines of agriculture, horticulture and gardening in the English way and has had several years experience in teaching. He has filled many responsible positions. His garden education began in 1873 when he went to Bylaugh Park, Norfolk, as German gardener. He remained at this place for seven years and at the time of leaving was foreman of all the glass houses there. For some time he was connected with the famous Veitch Nurseries of England. For two years he was foreman in the fruit house and gardens at Hatton House, Tring. He was then three years foreman at Basing Park, Hampshire; then two years foreman at Hopwood Hall, Lancashire; then three years head gardener and resident manager at The Grove, Teddington; then for eight years head gardener and steward at Wightwick Manor. In 1898 he was appointed head of the Department of Experimental Agriculture in the Bermudas which

position he held until the spring of 1905. During 1905 and 1906 he was engaged in commercial horticultural enterprises on his own account in the Bermudas, coming to Massachusetts to make his home in the fall of 1906.

HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items:

BUFFALO, N. Y.—E. C. Brueker, 385-87 Ellicott St.
CLEVELAND, OHIO—A. L. Hutchins, 2220 East 74th St.
COLUMBUS, OHIO—M. B. Faxon, 246 Oak St.
CINCINNATI, OHIO—Frank W. Ball, 31 East 3d St.
DETROIT, MICH.—Frank Danzer, 1487 15th St.
INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.
LOUISVILLE, KY.—F. L. Schulz, Jr., 1325 Cherokee Rd.
MONTREAL.—William Cooper, 338 St James St.
NEWPORT, R. I.—David McIntosh, Ledge Road.
PHILADELPHIA, PA.—George C. Watson, Dobson Bldg., 9th and Market Sts.
SAN FRANCISCO, CAL.—Luther Monette, 866 Isabella St., Oakland, Cal.
TWIN CITIES, Minn.—John A. May, 163 Iglehart St., St. Paul, Minn.
WASHINGTON—Jas. L. Carbery, Georgetown, D. C.
TOLEDO, OHIO—J. L. Schiller, 929 Prouty Ave.

ROSES AT WOODS HOLE.

Among the newer productions in M. H. Walsh's collection of rambler roses at Woods Hole *Evangeline* stands out as the queen of the singles. The flowers are pink flushed and veined, very large, fading to almost white as they mature. The blooms are borne in very large trusses and the foliage is enormous and shining. Mr. Walsh predicts a great future for *Evangeline* in park work.

Paradise is another fine one not yet ready for distribution. The petals are pink toned down to white in the centre of the flower, shell shaped and wavy. The stamens are numerous and bright yellow, giving a lively effect especially in the newly-opened flowers.

Among the unnamed seedlings are two doubles, rosy pink in color. One has wavy crumpled petals, very fine foliage and graceful, delicate habit. The other, a cross between *Wichuriana* and *Baltimore Belle*, bears very long trusses of flowers, deeper than *Debutante*, the color paler on the older blooms.

The New Cyclopaedia of American Horticulture. L. H. Bailey. Six large quarto volumes; 146 full-page plates; 25,000 plant names; \$25.00 in payments of \$1.00 down and eight monthly payments of \$3.00 each, or cash payment of \$23.75. Order from Horticulture.

NEWS OF THE CLUBS AND SOCIETIES

NEWPORT HORTICULTURAL SOCIETY.

Last Tuesday evening a business meeting of the Newport Horticultural Society was held in the ante room of the Society's hall. The business was dispatched in short order, the meeting lasting not more than twenty minutes, when an adjournment was voted. It was after this that the most important meeting perhaps in the Society's history took place, when members with their families to the number of between one hundred and fifty to two hundred, assembled in the main hall for the enjoyment of an entertainment, provided for them by the entertainment committee, of which John T. Allan was chairman. This entertainment consisted for the first part of vocal solos by Louis Walker, the famous blind tenor of Taunton, Thomas F. Connolly, Augustus H. Swan and John T. Allan, Jr., the boy soprano; the latter in his rendering of several selections made the hit of the evening. He has a voice of unusual sweetness enhanced by careful training with a presence and manner bright and captivating. Interspersed with the solos were readings by Miss Lilian E. Maher and Mr. Rankin, and violin selections by Master Richard Rossen and piano selections by Miss Finn.

At the conclusion of the first part of the musical program an excellent and elaborate collation was served by the committee assisted by Mr. Wiswell the landlord of the Perry House, the purveyor. After the collation had been leisurely disposed of the musical program was resumed and uninterruptedly continued until a late hour. Bruce Butters acted the host with rare tact and acceptance. There is not the least possible doubt that apart from the enjoyment pure and simple, meetings of this kind are beneficial to societies in other ways, and certainly the many words of approbation of this one indicates much good for the future of the Society. D. McINTOSH.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

The mid-year meeting of the executive committee of this association was held on Saturday, March 2, at the New Manchester House, Manchester, N. H. There were present: President Byron Worthen, of Manchester; Secretary Mulford, Harrisburg, Pa.; ex-Secretary Duncan, Boston; Chas. Keith, Bridgeport, Conn.; J. F. Cowell, Buffalo, N. Y.; ex-President J. A. Pettigrew and Wm. J. Stewart, Boston. The program for the annual convention to be held at Toronto next August and other matters appertaining to the general welfare of the association were discussed. A resolution on the death of James Braik of Buffalo, N. Y., a member of the association, was unanimously adopted. Messrs. J. F. Cowell, J. A. Pettigrew and Theodore Wirth were appointed a committee to consider the question of closer affiliation with other horticultural organizations.

In the evening the visitors were entertained at a banquet in the New Manchester House, at which were present ex-Mayor Knowlton and Messrs. Ramsay and McElroy of the Board of Public Works.

COLUMBUS FLORISTS' CLUB.

The last meeting of the club for February was held on the twenty-sixth, with President Stephens in the chair. It was a large and enthusiastic gathering, all the other officers and many members being on hand. There was a very attractive display of plants and flowers; the committee on awards, consisting of Messrs. Metzmaier, Roth, Brust, Reichart, and Saxton, gave R. A. Currier 20 points for a very finely-flowered specimen of Simon Mardner azalea; and I. D. Subert 25 points for a superb vase of Princess of Wales violets. The question of ways and means for a successful chrysanthemum show this autumn were discussed, and the solid manner in which our members back this project can only lead to an unqualified success. The committee in charge of this matter consists of Messrs. M. B. Faxon chairman, Albert Knopf, Guy H. Woodrow, Sherman F. Stephens and James McKellar. The plan of distributing penny packets of vegetable and flower seeds to the public school children, as in previous years, was arranged for, M. B. Faxon being chosen to direct the work. Lack of space prevents me from describing in full the good work that is being done here in the matter of school and home gardens—the greatest improvement is already noticeable in the cleaning-up of back yards, and other unsightly places; to say nothing of the beautiful front yards and window boxes that are the direct results of our club's hard work. After a very long and profitable meeting, the club adjourned to Tuesday evening, March 12.

NEW JERSEY FLORICULTURAL SOCIETY.

The monthly meeting and floral display of this society was held on March 1, at which time were started the competitive exhibits for 1907. Lager & Hurrell staged a tasteful group of *Lælia Cattleya Arnoldiana*, *Denbrobium nobile album* and *Cattleya Schroderæ*; Julius Roehrs Co., a collection of their Easter blooming orchids, *Cattleya Schroderæ* white and colored, *Oncidium splendens*; Orson A. Miller, *lycastes*, *Odontoglossum crispum*, *Oncidium fuscum*, and *Dendrobium virginalis*, for which they all were awarded first-class certificates. Carnations and roses were shown by D. Kindsgrab, Wm. Reid, Max Schneider, W. J. Bennett and others. F. R. Piereson Co. offered a prize of \$10.00 for the best 25 blooms of carnation Windsor at the fall show. A committee consisting of M. MacRorie, D. Kindsgrab and H. Halbig was appointed to frame a resolution on the death of O. D. Munn.

NASSAU COUNTY HORTICULTURAL SOCIETY.

At a recent meeting of the Nassau County Horticultural Society, Mr. Myers, manager to G. R. Sheldon, gave a few very instructive remarks on the growing of bush chrysanthemums for exhibition. The popular vice-president was listened to very attentively by all present. Mr. Myers as a grower has proved himself second to none in this section.

TARRYTOWN HORTICULTURAL SOCIETY.

The February meeting of this society was held in the regular meeting rooms, Feb. 26th, president Howard Nichols in the chair. A fine vase of the new scarlet carnation Beacon from Peter Fisher, Ellis, Mass., was on exhibition and was awarded a certificate of merit. Three well grown plants of *Primula stellata* were exhibited by Thos. Atkinson, gardener to Mrs. Henry Seigel, Mamaroneck, N. Y., who was awarded a cultural certificate for same. The monthly prize for the best twelve roses other than American Beauty was won by James Ballantyne with Bridesmaid.

It was decided to hold the June show, June 14th, and the dates were fixed for the fall show, for Nov. 6, 7 and 8th. A communication from David Fraser, Pittsburg, offering a prize of \$25.00 for the best twelve blooms of chrysanthemum Miss Clay Frick at the fall show was thankfully received, and was decided on to be offered as \$15.00 for first, and \$10.00 for second prize. A third prize of \$10.00 was then donated for the same exhibit by James Requa.

James I. Donlan read a paper on decorative work, and gave some good illustrations in the arrangement of cut flowers. Jos. Bradley contributed the cut flowers, amongst which were Roman hyacinths, *Primula obconica*, *mignonette*, cyclamens, carnations, and sweet peas. A very lively discussion followed. This was conceded to be the most animated meeting the society has had in many months and was thoroughly enjoyed by all. At the March meeting an essay will be read on out door roses.

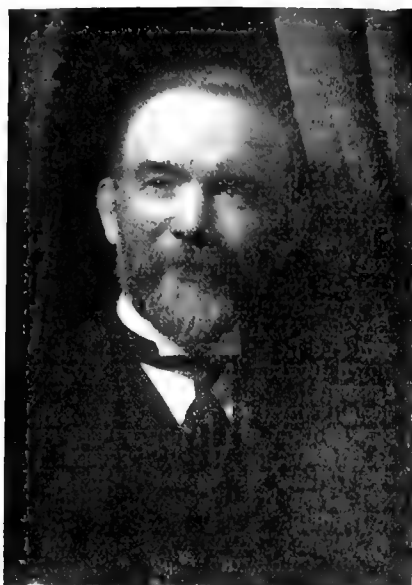
D. McFARLANE, Cor. Sec.

NORTH SHORE HORTICULTURAL SOCIETY.

This society held its regular meeting in Manchester, Mass., on March 1; W. B. Jackson was elected president pro tem. The subject discussed was "Annals suitable for forcing." A. E. Parsons was awarded a certificate of merit for vase of annual lupins. Mr. Parsons recommended growing lupins for cut flowers. With a night temperature of 50 to 55 degrees, seed sown in benches the early part of September will produce flowers ready for cutting by Christmas, and with feeding and ordinary treatment several crops of cut blooms can be secured. J. W. Duncan, assistant superintendent of the Boston Parks, will speak at the next meeting. WM. TILL, Sec.

GRAND RAPIDS (MICH.) FLORISTS' CLUB.

The meeting on February 18, was well attended. S. S. Skidelsky was present and gave an interesting talk which was greatly enjoyed. Mr. Strong of the State Agricultural College spoke upon Sub-Irrigation. Discussions in regard to the growing of cucumbers, lettuce, etc., were participated in by the members. A committee was appointed to arrange for an exhibition on April 15.



F. R. PIERSON, Vice-President



HARRY O. MAY, Treasurer



BENJ. HAMMOND, Secretary

Officers
and
Judges
American
Rose
Society



ROBERT SIMPSON, President

Convention
at
Washington
March
13-14-15
1907



W. F. KASTING, Judge



P. J. HAUSWIRTH, Judge



ROBERT CRAIG, Judge

AMERICAN ROSE SOCIETY.

The Spring Rose Show will open in Washington Light Infantry Hall, 15th & E streets, N. W., Washington, D. C., on next Wednesday, March 13th, to be open until Friday the 15th inclusive.

The Superintendent of exhibitions is Louis Freeman, 1307 F street, N. W., Washington, D. C. Various entries have already been made and M. H. Walsh of Woods Hole, Mass., advises that he will send on some fine samples of his climbing roses. The judges are Messrs. Robert Craig of Philadelphia, Wm. F. Kasting of Buffalo, and P. J. Hauswirth of Chicago. Papers will be prepared by Theo. Wirth, Supt. of Parks, Minneapolis, M. H. Walsh, and E. G. Hill of Richmond, Ind.

The headquarters of the Society will be at the Arlington Hotel. The Secretary will be in Washington on Tuesday, the 12th, to attend to matters pertaining to the Society and Show.

There is a particular prize offered by Moore, Hentz & Nash of \$15.00 and \$10.00 in cash to be given to the grower (that is a man who did the actual work of growing) for the two best exhibits of roses shown in the Exhibition. This is recognition of the actual workmanship, whether he be the exhibitor or an employee of the exhibitor. Corbey Bros. Bakery offer a cash prize of \$25.00 for the best mantel decoration. There are altogether 35 special premiums offered outside of the regular Society premiums. About three-quarters of the membership have already sent in their annual dues and several new men have forwarded their checks.

BENJAMIN HAMMOND, Secretary.

Scale of Points for Judging Roses.

	Competitive Classes.	Novelties for Certif.
Size	15	10
Color	20	20
Stem	20	15
Form	15	15
Substance	15	10
Foliage	15	15
Fragrance		5
Distinctiveness		10

WASHINGTON ROSE CONVENTION NOTES.

Widespread interest is being manifested here as well as throughout the entire country in the convention which meets here next week. It is expected that nearly every state and territory in the Union will be represented as well as different portions of Canada. Washington is particularly interested in three classes open to amateur competitors; these classes comprise three prizes each; for best specimen of fern which has been grown in a dwelling for at least four months previous to exhibition, for which Jno. Clark offers prizes of \$5, \$3, and \$2; for best specimen of rubber plant grown in dwelling, for which Peter Bisset offers similar prizes, and Geo. Field offers three prizes for best specimen of geranium. The preparations for the exhibit which is to be of a national character, have been in progress for some time, and when the show opens it is promised that Washington will see one of the prettiest and most unusual exhibits ever offered.

JAS. L. CARBERY,

FLORISTS CLUB OF PHILADELPHIA.

Seven regular and one associate members were added to the roll of the club at its meeting on 5th inst. Mr. Pennock's record in the presidency is setting the pace and bids fair to break the record. Captain Lynch was the speaker of the evening his subject being the wonderful possibilities of sending roses by mail all over the country and the great good it does incidentally to the regular flower trade by educating the people. His remarks will appear in full in a future issue and will be found very interesting. F. H. Kramer of Washington exhibited three grand vases of Queen Beatrice rose which were declared by the committee the finest ever exhibited. One rose had been in a drug-gist's window in Washington for five days, showing the wonderful keeping qualities of this new variety. John Cook of Baltimore exhibited his new pink rose, a lovely Bridesmaid shade, of globular form and very fragrant. Edward Towill showed a vase of Joseph W. Hill a bronze pink shade apparently of merit. Robert Scott & Son sent two of the new Dickson varieties in the hardy Hybrid Tea class, one a Malmaison color the other orange yellow. They look to be very promising future winners. Samuel Batchelor exhibited some well grown standard Teas. Jno. E. Haines sent carnations and the Baur Floral Co. sent samples of their new calyx mender. Among out-of-town visitors who addressed the meeting were Messrs. Knickman of New York, Whitehill of Newburgh, Kramer of Washington, Haines of Bethlehem, and Swartz of Sharon Hill. The meeting was the largest and most enthusiastic of 1907. Convention matters occupied much time.

AMERICAN CARNATION SOCIETY.

Carnations registered by R. Witterstaetter, Cincinnati, Ohio. "The Cardinal". Color a deep rich scarlet, habit similar to Estelle but stronger. "The Aristocrat". Color a deep lively cerise, long stemmed flowers three to three and one-half inches in diameter. Habit, no surplus grass, a rapid grower, quite healthy and with long jointed stems. "Afterglow". Color a light rosy cerise, a three-inch flower, guard petals standing out straight with high built center. Habit, a strong vigorous grower, stems the length of Aristocrat but more rigid. Destined to be grown as largely as The Lawson in its time.

ALBERT M. HERR.

Lancaster, Pa.

LADIES, PLEASE TAKE NOTICE.

The following States have furnished members for the Ladies' Auxiliary to S. A. F., as follows: Missouri, Michigan, Pennsylvania, Illinois, Ohio, Massachusetts, Indiana, New York, Connecticut, Louisiana, Wisconsin and Washington. I would like to learn from the Ladies in District of Columbia, New Jersey, Colorado, Iowa, Kansas, Kentucky, Maryland, Nebraska, and other States not mentioned. Our first order for pins is growing small rapidly. Encouraging, "is it not?"

MRS. CHAS. H. MAYNARD,

Secretary,

219 Horton Ave., Detroit, Mich.

TOLEDO (O.) FLORISTS' CLUB.

Our meeting of February 28 was the greatest success the club has ever had. It was intended to be a special carnation meeting, but it is better designated as a carnation show. The consequence was, that the meeting proper did not amount to anything as far as club business was concerned, but it was over-running with good fellowship and sociability. J. L. Schiller had the management of the exhibits and his efforts in bringing together flowers from the home growers and the well-known houses in this line were very successful. All nearby florists were specially invited, and a goodly number came to look at the flowers and renew old friendship. We had several hundred visitors during the evening. The local press treated us very kindly in the reports.

A large table was reserved for the outside exhibitors and a handsome bunch of Aristocrat was in the center. John E. Haines exhibited John E. Haines, Imperial and Pink Imperial. The stem and size of flower on this collection surpassed anything seen here before. The F. R. Pierson Co. showed White Enchantress, Winsor and Miss Helen M. Gould. We liked the latter, but our people will not buy anything but pure colors. W. E. Hall's scarlet E. G. Gillett is well known here and is hard to beat. It was finer this year than ever, and when he makes up his mind to disseminate it, it will give no disappointment to buyers. R. Hartman of Napoleon showed excellent Lady Bountiful and Pink Lawson. Mrs. E. L. Hawkins had a sport of Enchantress and Lilium philippense.

Among local exhibitors President Bayer had 6 vases, of which specially worthy of mention were Mrs. T. W. Lawson, White Lawson, and some seedlings. Emil Kuhnke had extra good Rose Pink Enchantress, Mrs. M. A. Patten, Pink Patten, Marquise, Flamingo. In John Grattopp's collection Enchantress and Mrs. T. W. Lawson led. Mr. Haebich, florist at the State Hospital, exhibited his white seedling, which shows good substance, is medium large and of a pure glistening white. He has no name for it and refuses stubbornly all suggestions for a name in connection with the hospital. Kruger Bros. had a nice group of palms, lilac Marie Legraye, and lily of the valley; Richmond, Bride and Bridesmaid roses were especially good. A large table was filled with sturdy cyclamens with immense flowers grown mostly from a strain furnished by the Perennial Gardens Co., callas, Boston and Scottii ferns, shown by Emil Kuhnke. The Perennial Gardens Co., exhibited a well-grown specimen of Araucaria imbricata, and bulbs of lilium auratum, speciosum album and roseum.

The interest shown by the public is encouraging, and we hope to have a large show in the future. These little exhibitions of seasonable flowers tend to help our trade, and that is what we want.

AN INTERNATIONAL EXHIBITION.

On the first of May, 1907, a horticultural exhibition in connection with the International Exposition of Art will open at Mannheim on the Rhine, Germany. It is desired to make the exhibition representative of all countries, and Americans are invited to contri-

bute to the departments of plants and fruits. Especially notable will be the collections of orchids and cacti which will contain many novelties from South America and Mexico, growing as nearly as possible in their natural state. Original garden plots will be a prominent feature. Demonstrations will be given to show the improvements in packing fruits and flowers for ocean transportation, in preserving fruits both by cooling and heating processes, the various forms of jars, etc., for holding preserved fruit, etc.

Information regarding details of the exhibition can be obtained by addressing Ritter, Burgomaster, Chairman of the Exposition, Mannheim, Germany.

CARNATION NIGHT AT CORNELL UNIVERSITY.

The evening of February 25th was dedicated to carnations at the Lazy Club, which is the official organization of the Horticultural Department of Cornell University. At the solicitation of W. H. Griffiths, gardener of the department, a number of varieties of carnations were on exhibition. The merits of these were studied and compared by students and visitors. The extraordinary improvement which has taken place in the commercial qualities of this flower in recent years was noted and commented upon.

Collections of blooms were received from John E. Haines, Bethlehem, Pa., who forwarded an exceedingly instructive and interesting group, largely of his own origination. The F. R. Pierson Co., Tarrytown, N. Y., showed Winsor, Melody, Helen M. Gould, White Enchantress, Rose Pink Enchantress and Red Lawson. The interesting feature about this exhibit is that Gould, White Enchantress and Rose Pink Enchantress are all sports from the original Enchantress. The Pierson Company regard these as among the leading commercial varieties which they cultivate. Peter Fisher, Ellis, Mass., showed a fine vase of Beacon. The Cottage Gardens Co., Queens, L. I., contributed a collection of some fifteen seedlings, showing a great variety of color and form, and illustrating in a general way the possibilities of careful breeding when applied to the carnation. Many of the seedlings were of high merit. The Chicago Carnation Co., Joliet, Ill., provided a striking vase of that handsome carnation, Aristocrat. This variety illustrated in splendid fashion the best points of a good commercial flower. For itself it attracted much attention from visitors. The United States Cut Flower Co. showed a general collection.

It is needless to say that the exhibit provided both instruction and inspiration to the large group of students who had the privilege of examining and studying it.

THE HUNTINGTON HORTICULTURAL AND AGRICULTURAL SOCIETY (N. Y.).

The third annual exhibition of this society took place on the evening of February 26 in Huntington, N. Y. In the various carnation classes, Cottage Gardens Co. was first with Mrs. Ward (dark pink), Alma Ward (white), Beacon (scarlet), Creole Beauty (crimson); J. D. Cockcroft, second, with

Pink Patten, Georgia, Victory and Harvard, and first with Mrs. Patten and Seedling No. 50; H. T. & A. H. Funnell took second with Enchantress, also a first on N. elegantissima. A. Alius had a first prize on cyclamens and captured several other prizes, as did also R. Cartwright. Special award was given to F. R. Pierson Co. for carnation Winsor, and to Huntington Nursery Co. for sweet peas.

TWO EX-PRESIDENTS HONORED.

On Wednesday evening, March 6, one of the most enjoyable events for many years took place in Boston. Messrs. J. A. Pettigrew and James Wheeler, two ex-presidents of the Gardeners' and Florists' Club, were entertained at the Boston Club as guests of about fifty of the members of the Gardeners' and Florists' Club, and during the proceedings were each presented with a handsome piece of bronze statuary as a testimonial of the affection of the craft and the gratitude of the members for the unselfish, efficient work these gentlemen had done in the upbuilding of the club from the inaction into which it had been allowed to fall for some time previous to Mr. Pettigrew's election as its president.

The proceedings were under the management and direction of that eminent past-master in affairs of this kind, Edward Hatch. All the arrangements gave evidence of committee work of the most efficient sort, and the tables, mantles and walls were resplendent with orchids, roses, carnations and sweet peas donated by generous members. Mr. Hatch was in his happiest vein when he addressed Mr. Pettigrew, and in appreciative words presented him on behalf of the assembled friends with a bronze piece representing Instruction, and, later on, addressing Mr. Wheeler, passed him a like testimonial, the subject being "The Angelus." The recipients were given an ovation and severally endeavored to find words to fittingly express their appreciation.

Speeches were then in order. F. E. Palmer was introduced as an indefatigable worker who, when sure he is right, cannot be swerved. He spoke enthusiastically of Mr. Pettigrew's work for the club, his devotion to its interests and his lovable personality, and of Mr. Wheeler's tact, good nature and self-sacrifice as displayed when he took up Mr. Pettigrew's good work and carried it forward so successfully. J. K. M. L. Farquhar followed in like sentiment and enlarged upon the benefaction to the community and the craft such men always are. Wm. J. Stewart followed with congratulations on the club's renewed vigor, and predicted a still greater future for it and all other floricultural organizations if they will take for their keynote the two sentiments so well exemplified in the two testimonials and their recipients—Education and Devotion.

J. T. Butterfield gave good evidence of his versatility in a number of verses touching cleverly upon several of the gentlemen present, especially Secretary Craig, whose recent acquirement of twins was duly lauded. J. W. Duncan told a story and Secretary Craig recited "The Tragedy at Sloan's." James H. Morton eloquently spoke of the bond of friendship so strikingly demonstrated in this and similar occasions, and said that the great foundation for

success in such organizations is for every member to do his duty faithfully, sticking by the club in adversity as well as prosperity, and giving the young men plenty to do. Alexander Montgomery and Jackson Dawson each spoke interestingly and hopefully.

President Westwood extolled the spirit of the true gardener, the grand friendships engendered and the nobility attaching to his profession. M. H. Norton gave some interesting reminiscences, and then, after a vote of thanks to Mr. Hatch and his efficient committees, and patriotic singing and appropriate music by the orchestra, this memorable event came to a close.

LENOX HORTICULTURAL SOCIETY.

At the regular meeting held Saturday, March 2nd, the schedules for the June, August and fall exhibition were read and adopted. This being carnation night, it brought out some very fine exhibits, and the following exhibitors were awarded first prizes: A. J. Loveless for a fine vase of Robert Craig, F. Heeremans for Enchantress, A. McConnachie for Pink Lawson, and the same exhibitor winning for a vase of mixed varieties. A. H. Wingett staged a vase of stock Queen Alexandra which was much admired, some of the spikes being fully three feet in length, and was awarded a cultural certificate, also for two very fine vases of President Carnot and Richmond roses. I may say that Richmond is doing remarkably well up here, although we have had a very dull winter, and all the growers speak very highly of it. Three silver cups were offered and accepted by the society for competition at the fall exhibition: H. A. Dreer, Philadelphia, R. & J. Farquhar & Co., Boston, and E. Jaques of Lenox. The following firms have also donated premiums: Vaughan's Seed Store, A. T. Boddington, New York, Chas. H. Totty, Madison, N. J., Julius Roehrs Company, Rutherford, N. J., A. N. Pierson, Cromwell, Conn., Bay State Nurseries, South Abington, Mass., and Howard and Morrow, Pittsfield. Next meeting night March 16th.

G. INSTONE, Secretary.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next meeting, March 19, will be devoted chiefly to the carnation as a topic, and F. E. Palmer will open the discussion on its various phases. A large display of blooms is expected, and any exhibits sent from outside points will be duly cared for. On March 23 the first field day of the season is to be held at W. W. Edgar Company's establishment at Waverley, where the array of Easter plants will be a centre of attraction at that time.

NATIONAL CHRYSANTHEMUM SOCIETY OF ENGLAND.

At the recent annual meeting of this society the following gentlemen were elected to the offices mentioned: President, Charles E. Shea; treasurer, John Green; chairman of committee, Thomas Bevan; vice-chairman, E. F. Hawes; foreign secretary, C. Harman Payne; general secretary, R. A. Witty.

LITTLE JOURNEYS BY THE GINGER JAR MAN.

I.

The Dingee & Conard Co.

Once in a while the Ginger Jar comes down off its shelf and takes a little trip—not because it likes that but because a certain editor has an idea that travel broadens one; which may be very true if one happens to be run over by an automobile, but if one goes on the cannon ball express one is just as likely to get scattered. The forty-mile trip from the Quaker City to West Grove takes however two hours by the clock and there is absolutely no danger, unless the little worm-eaten West Grove station should happen to fall on you. It has been threatening to do something desperate these many years. Captain Lynch has to be very solemn and dignified inside that depot.

Every one has heard of the Captain of the Rough Riders of Chester Co. and his speedy horses. But the Captain had commandeered old Moses for this occasion and the guest was half way on Shanks' Mare before being met. Moses gets his name from having been foaled the same year that Moses struck the rock, so the venerable steed and its precious freight arrived in safety.

After modestly running the gauntlet of the bright eyes in the counting rooms the Ginger Jar was escorted with great courtesy by Edward Parker the chief of the operative forces through the greenhouses. Last year there were but seventy but there has been an increase—eight more this year—and it was enough to make one's head swim—the bewildering variety of roses of every conceivable clime and character from sturdy young ones of the mailing size to big robust plants of the two and three year olds—to review such a myriad and listen to the virtues and vices of each as expounded by Messrs. Lynch and Parker is about as interesting an experience as any one could wish.

Of course one looks diligently for all the shortcomings and secrets, especially in any house where the guides want to hurry past. The plausible reason given is usually, "Oh, there's nothing interesting in there," but being an ancient this jug is not deceived, and rolls nimbly in if the gates are ajar. In this instance however no "finds" were found.

In one house one hears there are no less than 35,000 young roses in 2 1-2 in. pots. That means, multiplied by eighty, nearly three millions of roses and the factory making more every day. The mill is emptying constantly and filling up again. Roses go everywhere by mail, even to the interior of China.

Of course, not being in bloom, one can say nothing of the roses themselves, but that is unnecessary for it is all put down in condensed form in the well-illustrated book of over 100 pages which the firm sends free everywhere. There are over a thousand named varieties in the collection and so expert do the growers become that they can recognize the variety by the foliage alone. One grower is said to know over 800 varieties but Mr. Parker can only tell about 500 and Mr. Lynch modestly owned to knowing but 300 by the foliage. According to

the prophet "I said in my haste; all men are liars" and the foregoing does sound like a bit of a whopper. But it was verified on referring it on the return to Philadelphia to D. T. Connor of the Lord & Burnham Co., who worked in the D & C greenhouses for nine years when a boy. At the end of that time his limit was 250; but he said others were much cleverer at it than he. Still one would like to see them do it and keep tab. You've all heard that old yarn about Sandy Macpherson's visit to London. On his return home one of his friends asked him what he thought of it. "Man," said Sandy, "it's a grand toon; but the folk there are no verra honest." "How's that?" "Weel, I had my doubts about it a' the week but I proved it when comin' awa'. I bought a package o' pins labeled 1000 for a penny and on counting them on the train comin' home I found them seventeen short." The merit of this yarn lies in its application to Messrs. Lynch, Parker and those other experts. Only—there is no proof yet but it sounds to an outsider about as wonderful a tale as the cuteness of Corney Rooney's pig which always disappeared the day before Quarter Day for fear he'd be made bacon of to pay the rent.

GEORGE C. WATSON.

CLUB AND SOCIETY NOTES.

The Scranton Florists' Club, will hold its first flower show in Guernsey Hall, Scranton, Pa., on March 15.

The Indiana State Florists' Association at its meeting on March 5 made preliminary arrangements for a spring show.

The eastern section of the New York Fruit Growers' Association met at Poughkeepsie on February 21, with a good attendance, interesting papers and fine exhibits. J. R. Cornell continues as president and E. C. Gillett of Penn Yan as secretary for another year.

At a special meeting of the Tri-City Florists' Club held at Fejervary Park it was decided to hold the annual banquet at Turner Hall, Davenport, Iowa, Monday, March 11, 1907. The annual meeting for election of officers for the ensuing year will be held at Fejervary Park, Thursday, March 14.

The Annual Proceedings and Bulletin of the American Rose Society for 1906 has come to hand. The report of the meeting and exhibition at Boston is given in full and a chapter from "A Woman's Hardy Garden" by Helena Rutherford Ely has been appended. The list of members contains 158 names, of which 43 are life members.

The nurserymen of the state of Connecticut met at the Hotel Garde, New Haven, on March 5th and formed a permanent organization to be known as Connecticut Nurserymen's Association, with the following officers: John S. Barnes of Barnes Bros., president; R. H. Gardener of Gardener's Nurseries, vice-president; Frank Elmer Conine of The F. E. Conine Nursery Co., secretary; and W. W. Hunt of Hunt & Co., as treasurer; Edwin Hoyt, C. E. Burr and E. F. Coe committeemen.

PHILADELPHIA NOTES.

John Westcott reports that his sojourn in the sunny south did him some good, but he is still far from his old self.

The executive committee of the S. A. F. meets at the Hotel Walton, Monday and Tuesday, 11th and 12th, to plan out the program for the August convention.

Dracena fragrans is in bloom with Christian Eisele at present. The Robert Craig Co. also has several of this species in bloom. The flower is fairly attractive and very fragrant.

A special feature of the Horticultural Society's meeting on the 19th inst. will be an address by William Kleinheinz, "A winter trip to Europe by an American gardener." This will be worth hearing.

William Munro of Garretford asserts that this has been the most unprofitable year for American Beauty growers ever experienced. We noted here two very fine houses of Kaiserin Augusta Victoria.

Chas. S. Grey, lately with the S. S. Pennock-Meehan Co., has transferred his allegiance to the Edward Reid establishment on Ranstead street. Mr. Grey is young, ambitious, and energetic. His many friends wish him well in his new move.

Jno. Lees of Frankford has built and opened a show room at Bridge and Main streets for the retail business. It is near his greenhouses, and also adjoins the show rooms of Kohler & Sons erected some years ago. Mr. Lees will build an addition to his greenhouses the coming spring.

Berger Bros. opened their new flower market at 13th and Filbert streets on Monday, and were kept busy all day receiving the congratulations of customers and friends, and incidentally hustling out the largest overturn of stock in their history. Room is to be made for a number of the old market renters or sub-tenants as soon as the lease in the old building expires.

On Wednesday the committee accompanied by a goodly delegation from this city will start for the Rose Show and Convention at Washington. Although roses generally are not up to last year's exhibition standard in this locality, it is expected that quite a number of our growers will contribute their best and help to make the show a success and no doubt will be rewarded by a prize or two, but in any event they are keen enough, most of them, to enjoy exhibiting for the sport of the thing.

SEND FOR ONE.

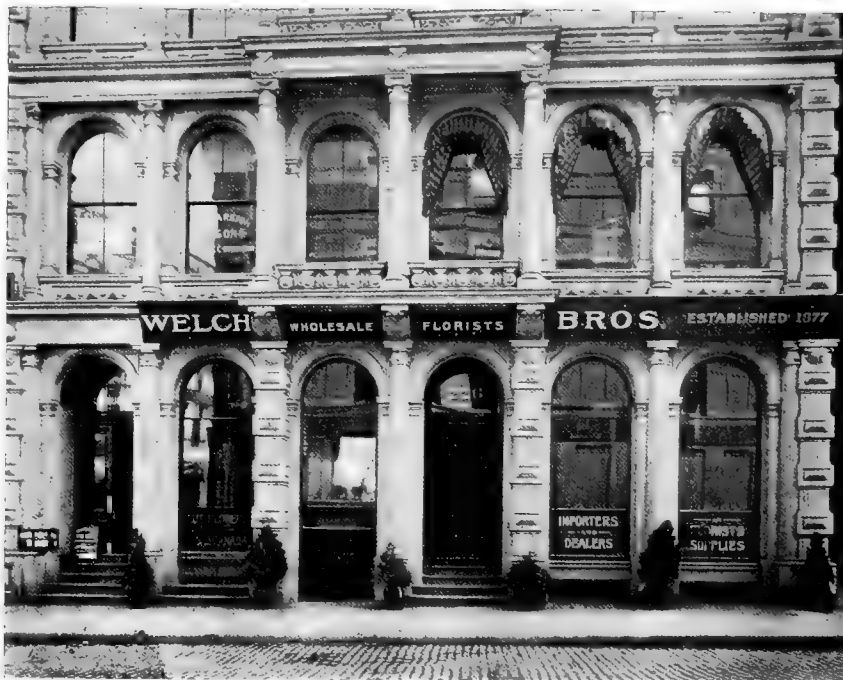
John C. Moninger Company, Chicago, are sending out a useful book of instructions for erecting greenhouses with their material. It answers in a lucid manner many of the questions regarding various problems that come up in the erection of greenhouses. Among the topics treated on are the ground site; painting; foundations and walls; wood posts; cast-iron posts; concrete, brick, stone or tile walls; sash; wood gutters; wall plates; iron gutters; ridge and sash bars; purlins; headers; ventilators; trusses; benches; glazing, etc. It is the intention of the publishers to dispose of these books at the nominal price of ten cents each, to cover cost of printing and mailing.

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Asparagus plumosus, Heliotrope, Fuchsias, Salvia Bonfire, Coleus Verschaffeltii and Golden Bedder and fancy varieties, Variegated Periwinkle, Ageratum Blue Perfection, Moon Vine (white, the true variety) Ipomea Heavenly Blue, Acalypha, Clematis paniculata, Parlor Ivy, Lobelias.

Seedlings from flats at \$1.00 per 100

Asparagus Sprengerii, Smilax, Ageratum Blue Perfection, Petunia Howard's Star and Rosy Morn, Marguerite Carnations, Stokesia, Verbenas, Alyssum new dwarf.

Plants from 3 in. pots at \$4.00 per 100

Geraniums best varieties, rose, apple and nutmeg scented, Fuchsias, Heliotrope.

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PHILADELPHIA, PA.

OBITUARY.

Annie Lonsdale.

The grim reaper has again cut a swath in the devoted family of Edwin Lonsdale. His last and eldest—Annie—died on Saturday, March 2nd, after a week's illness from pneumonia. The funeral services took place on Tuesday and were attended by most of the people prominent in the trade, the deceased having had a wide circle of friends and acquaintances outside her home life by whom she was held in the highest esteem. Ever since growing to womanhood Miss Lonsdale has been noted outside her home circle for business ability and shrewd common sense combined in a wonderful degree with a quiet and gentle manner.

She was the most active worker in the Grace Evangelical Union Church, was in the choir, was president of the Lutheran League, secretary to the Ladies' Aid and an active worker on Sunday School and committee work.

In addition to this she was the sunshine of her home and beloved by every one. The unexpected outcome of her last illness was a great shock to all, and the sincerest sympathy for the sorrowing family and relatives is universally expressed. Her parents have one consolation: they can look back on the brief span of life of that kind spirit and find a memory the ideal development of a perfect Christian womanhood, the bloom fresh and fragrant and ever dear to fond recollections even if cut off all too soon. Her memory will long remain green and sweet among all who knew her.

G. C. W.

Orson D. Munn.

Orson D. Munn, proprietor of the Scientific American newspaper, died on Feb. 28, in his 83d year, at his residence in New York. He was known horticulturally from his estate "The Terraces" a country seat of sixty acres, one of the show places of Llewellyn Park, Orange, N. J., where eight gardeners are employed during the summer under John Hayes, the efficient superintendent for the past 20 years, and by his frequent contributions to the shows of the New Jersey Floricultural Society of which he was a member and patron.

Mr. Munn designed and donated the spring with its landscape adornments at the entrance to Llewellyn Park where he was also instrumental in placing the statue of its founder Llewellyn S. Haskell as well as many of the unique and artistic features which surround his residence. He was a familiar figure upon train and ferryboat, frequently with a bunch of his Lawson carnations in his hand.

Herman C. Baartman.

Herman C. Baartman, senior member of the firm of Baartman & Koning of Sassenheim, Holland, 33 years old, a life member of the S. A. F., was drowned on the steamer Berlin off the coast of Holland, Feb. 21st, 1907. Only 14 passengers of the 143 on board were saved. Mr. Baartman was returning

from England where he had been on a business trip for the firm. Previous to this he had made 12 trips to the United States. He had lots of sincere friends in the trade and was known to be a good honest and reliable dealer in bulbs. The business will be carried on by his partner John Koning, who is traveling in this country now.

The Late Ferdinand Tschupp.

The obituary notes of this highly respected rose grower of New Durham, N. J., were published in our last issue. Since their appearance we have had communications from several members of the trade among them one



from Mr. Alexander McConnell of New York, speaking in terms of highest appreciation of Mr. Tschupp's many estimable qualities. The business at New Durham is to be carried on by his son Edward.

Other Deaths.

R. S. Forrester, colored florist of Richmond, Va., died on February 23.

John Lester of Ottawa, Kan., died on February 21, aged 89. A wife and six children survive him.

Mrs. S. W. Twombly died at her home in Winchester, Mass., on February 28, aged 84 years.

Sylvester Snell, for many years a market gardener in Watertown, N. Y., died on February 25, aged 79.

Franklin J. Ziegler of Pottstown, Pa., died on February 23, in his sixty-third year. A widow and one son survive.

James Maginnis, father of Mrs. Patrick Welch, died at his home in Dorchester, Mass., on March 4, aged 72 years.

Jonathan Aucock, for many years a successful florist of Utica, N. Y., died on February 15. Born in Shaith, Yorkshire, England, May 13, 1828, he came to this country in 1850 and located in Utica in 1867. He was president of the florists' club in that city for some time.

PERSONAL.

Mr. and Mrs. Robert Klagge of Mt. Clemens, Mich., are visiting in Chicago.

Louis Soldan of Elmira, N. Y., has taken a position with the Elm City Nursery, New Haven, Ct.

F. A. Herendeen, secretary of the Herendeen Mfg. Co., Geneva, N. Y., is reported as on the sick list.

William and Samuel Graff of Columbus, Ohio, have been in Chicago for several days attending the wedding of their sister.

A. Newell, recently with Mrs. Clark, Pomfret, Conn., is about to take charge of Lieut. Governor Draper's place at Hopdale, Mass.

Thomas Maybury, for nine years with E. J. Brockett of East Orange, N. J., has secured a place with Miss Coppell, Tenafly, N. J.

Adolph Greenbacker of Meriden, Conn., has returned after three months spent in Germany, Switzerland, and other European countries.

Louis Klees, of Kensington, Ct., is reported as seriously ill. He is in his eighty-third year. He was gardener for Abraham Lincoln at Springfield, Ill.

Ed Davies, formerly with the E. D. Jordan estate, Chiltonville, Mass., has taken a position as foreman under J. R. Shield at the Model Farm Greenhouse, Dalton, Mass.

Joseph A. Manda is preparing to celebrate his first Easter at his new quarters in West Orange, N. J. His real estate is said to have doubled in value since he acquired it.

The marriage of Charles W. Ashmead, of Stroud, England, gardener for Mrs. William Pierson of East Orange, N. J., and Miss Louise T. Newton of West Orange, took place on February 4.

Wm. C. Rust, gardener for Dr. C. G. Weld, Brookline, Mass., is just recovering from an operation for appendicitis, performed at the Massachusetts General Hospital. Mr. Rust is just able to be at work a short time each day at present.

We are pleased to announce that A. H. Kirkland, of Boston, who for the past three weeks has been critically ill with typhoid, is approaching the crisis of the disease with confidence on the part of his physicians that he will recover. Mr. Kirkland's position of State superintendent for suppressing the gypsy moth and brown-tail moths has made his name a familiar one.

A PROPOSITION WORTH CONSIDERING.

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AUCTION We will open the season March 12, AT NOON

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Containing Roses, Rhododendrons, Magnolias, Azaleas,
Conifers, Valley Clumps, Bulbs, etc.

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MORE EXPLICIT INFORMATION NEEDED.

Editor HORTICULTURE:

In a late issue of HORTICULTURE I note Mr. Hatfield's article on the Dosoris evergreens which I have read with great delight and benefit. To one living in a cold and uncertain climate that article conveys an immense amount of practical information, such information indeed as I find most difficult to get "from the books." It is exceedingly discouraging to a lover of shrubs and trees to find that a variety whose beauty, symmetry, habit of growth and other features have aroused his admiration and for which he has paid good money, and given good time and attention in its planting and care, at the close of its first winter is no more, all—all is gone; that it was not hardy and could not withstand the severities of the climate. Too little attention to this feature is given by dealers, nurserymen and scribes. Too many written articles, otherwise pleasing and instructive, are signally deficient on this point; yes, even more than that, are almost blamable for not plainly stating, "not reliably hardy" or words to that effect.

HORTICULTURE has been particularly fortunate in securing such an article as Mr. Hatfield's to follow the exceedingly instructive and entertaining papers of Mr. Hans. I trust that many more are yet to come.

C. W. HOITT.

Nashua, N. H., March 4, 1907.

PUBLICATIONS RECEIVED.

Wm. H. Moon Co., Morrisville, Pa.—Horticultural Art Book. Tells of Moon's trees. Well filled with lovely half-tone views and text matter such as the tree enthusiast delights in perusing.

Report of Jens Jensen, landscape architect and general superintendent; report of committee of the whole, regarding the donation of a site in Garfield Park and the appropriation of \$100,000 for the erection of a museum to house the Gunther collection of war relics; report of special meeting of West Chicago Park Commissioners.

The illustrated catalogue of F. W. Kelsey, recently to hand, is something more than a catalogue; it is in fact a reliable hand book for ready reference wherever trustworthy information on trees and shrub topics is desired. Both botanical and common names are given in the descriptions, and the alphabetical index is a great convenience; the height each variety attains at maturity is also a valuable feature. Another useful department is the selection of trained fruit trees and grapevines for vineries.

John Waterer & Sons, Ld. AMERICAN NURSERY BAGSHOT, ENGLAND

have the finest stock of recognized Hardy Rhododendrons, Azaleas, Andromedas, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

John Waterer & Sons are the great exhibitors of Rhododendrons in London.

Great Bargains

In nursery stock of all kinds.

PRIVET—3 to 4 ft., at \$3.50 per 100, \$30.00 per 1000.
3 to 4 ft., XX heavy 4.00 " 100, 35.00 " 1000.
4 to 5 ft., extra heavy 5.00 " 100, 40.00 " 1000.
5 to 6 ft., 6.00 " 100, 50.00 " 1000.

HYDRANGEAS—2 to 3 ft., at \$7.00 per 100.
3 to 4 ft., at 10.00 per 100.
3 to 4 ft., XXX at \$12.00 per 100.

CARYOPTERIS MASTACANTHUS, field grown, at \$6.00 per 100.

STEPHANANDRA FLEXUOSA,—18 to 24 in. at \$7.00 per 100; 2 to 2½ ft., at \$8.00 per 100.

SPIREA VAN HOUTTEI—3 to 4 ft., at \$8.00 per 100.

VIBURNUM PLICATUM—2 to 3 ft., at \$12.00 per 100; 3 to 4 ft., at \$15.00 per 100.

70,000 AZALEA ATOENA—Special prices on application.

HONEYSUCKLES—2 yr. old, in large quantities at \$1.00 per 1000.

600,000 HERBACEOUS PLANTS.

PINK PÆONIAS in large clumps at \$10.00 per 100.

30,000 CREEPING ROSES at low prices given on application.

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INCORPORATED.

Ratliffe & Tanner Co., Richmond, Va.; florist business; J. L. Ratcliffe, Pres.; J. T. McKenna, secy.; E. L. Tanner, treas.; capital, \$50,000.

The Franklin & Crosby Co. of Brooklyn, N. Y., were incorporated on February 8 to do a real estate and nursery business. Incorporators, V. R. Franklin, J. Franklin, H. D. and L. Crosby; capital, \$20,000.

TREES and SHRUBS

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Iron-Clad Hardy Named and Maximum Rhododendrons

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Roses, Vines, Fruit Trees, Etc.

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Illustrated Descriptive Catalogue (144 pages), also Descriptive List of Novelties and Specialties with beautiful colored plate of the New Hardy White Rose SNOW QUEEN (Frau Karl Druschki), mailed FREE on request.

You'll find something worth reading on every page of this paper.

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When you do not know where to get what you want Send to us. We can fill most any kind of an order in our line.

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Place your orders early for rooted cuttings. Prices \$6 per 100, \$50.00 per 1000. DISCOUNT FOR CASH WITH ORDER

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CARNATION COMMENTS

E. A. Stroud of Overbrook, Pa., gave a talk before the Florists' Club of Philadelphia on February 5, embodying his views on the Toronto Carnation Meeting, and his opinion of the varieties shown there and their respective merits. In the course of his remarks he said:

I am more than ever convinced that a line must be drawn between what may be termed the exhibition and the commercial carnation, just as we class our chrysanthemums. I want to impress members with the fact that the prize awards are very misleading. The question of how many flowers per square foot, and how these flowers are cut through the various months of the year, are facts which can be gained only through experience.

I will take the carnations in their colors starting with the white section.

Whites.

Alma Ward stood out prominently. It certainly is an exquisite flower and has improved considerably since shown at Boston. It is particularly adapted to the New York market, where it can command the price of which it is worthy. I suppose you noticed that this variety was awarded the silver medal; the gold medal was withheld because the judges did not consider any variety up to the standard required by a gold medal, and I might add that, taking all the exhibits, none was at its best, owing doubtless to the unfavorable weather all over the country the week previous.

White Perfection, well spoken of by many, is a fine, large flower, a good, clean white and an improvement over Lady Bountiful except in stem. I have some doubts as to its keeping qualities.

White Lawson comes such a poor color and so short-stemmed early in the season that it is not just all that is desired. The whites were poorly represented. I do not recall a vase of Lady Bountiful, which was so prominent at the Boston show. The general impression among the trade is that it lacks petallage, is neither early enough, nor free enough. There is a great opening for a new white and I wish some one would originate one to fill the bill.

A new white called Georgia looks as though it might be a good thing commercially. It does not have the size of White Perfection, but has a better stem and, I should judge, is a free bloomer.

The Reds.

Robert Craig still holds first honors, according to the judges. It is no doubt a fine red, and where a fancy

price can be obtained, it would be profitable to grow.

Beacon was well represented by Mr. Fisher, Cottage Gardens, and the Strafford Flower Farm. We think well of Beacon. The habit of the plant is similar to Enchantress and shows excellent breeding. It is free, healthy and of good size as to flower. I have heard some criticism as to its color. Personally I see no objection to it, as my experience with red carnations has proven that the orange-reds are better keepers and shippers and without the habit of bruising, as do Cardinal, Adonis and Flamingo. I am satisfied with Beacon and expect to grow a quantity next year.

Victory was not shown extensively. It has the same good qualities as Beacon in regard to its keeping qualities and color. If it has any faults it may be considered a trifle weak in stem and form of flower.

A new red of merit was a seedling from Bassett & Washburn. As I saw it on the table it looked like a good commercial variety.

Red Chief, exhibited by F. Dorner & Sons Co., while a good color, showed a weakness of stem which made it undesirable to me. This fault, I understand, was owing to the climatic conditions. I was informed that Lady Bountiful, when first shown as a seedling, looked much the same way.

Mr. Haines' red has done poorly at Strafford. If I could grow it the way Mr. Haines does it would be fine, but, unfortunately, I have not yet been able to do so; it does not feel at home at Strafford, and the difficulty looks to me like a question of soil. I saw it doing beautifully at Mr. Widener's place at Elkins Park.

In Pink.

In the class designated as the Scott shade of pink, Winsor was shown by the F. R. Pierson Co., in quantity and it certainly appeals to me. It is what is wanted in color and, while it may be slightly undersized, and may be a little short in stem, its freedom and color offset, to my mind, anything that may be said against it.

Winsome was one I did not examine closely. It seemed a pleasing shade and one that would be desirable. Dailledouze Bros. exhibited a pink sport of Lawson.

The cerise class, or Lawson shade of pink, was better represented than any other class. The great objection, it seemed to me, was the bluish cast most of them had. Two, the colors of which pleased me, were Afterglow and Mr. Weber's new seedling, Mabelle. Both of these arrived too late to be judged. Aristocrat is a fine, large flower. Its color did not strike me favorably. Perhaps I am too critical.

Dailledouze Bros.' new seedling, No. 348, which won the bronze medal, is

a large, fine flower, but, again, I did not admire the color.

Mrs. C. W. Ward was attractive. I understand Mr. Ward thinks so much of it that it is not to be put on the market.

Elsa Struss did not show as well as at Boston.

Helen Goddard looked good commercially.

Pink Imperial showed good flowers and probably the longest stems in the show.

Variegated.

In the variegated section was Helen Gould, a sport of Enchantress. As a novelty it will make a place for itself.

Toreador, by Weber & Sons Co., an improved Prosperity, has good form and much better stem.

Bay State or seedling No. 9, by A. Roper, is a much improved Mrs. M. A. Patten, and if a free bloomer should be a good thing.

Patten still holds its own.

Imperial attracted attention by its magnificent stems. It is a novelty pure and simple.

Other Varieties.

In the class for Enchantress shade of pink, Enchantress itself, so generally well known, hardly needs description. There is nothing to displace it. One competitor, by Baur & Smith, called May, was a better color, but undersized.

Some seedlings exhibited by F. Dorner & Sons Co., are worthy of mention. One, a scarlet, No. 305, I think will be heard from, also seedling No. 9,703, a maroon shade, attracted my attention.

I hope my remarks will be taken in the spirit they are meant. I have tried to give my opinion as the flowers appeared to me personally, and I trust no one will be misled by them.

CARNATION NOTES.

Two fine sports from Enchantress carnation presumably identical with Rose-pink Enchantress have favored at least two Washington growers this season.

Peirce Bros.' scarlet seedling Governor Guild is one of the most satisfactory and popular carnations of its color ever brought into the Boston market. It is a very large flower, averaging 3 1-2 inches across and has all the good points of a standard bloom.

Another scarlet of high degree is on the horizon, a Lawson seedling now in its third year, raised by Elijah A. Wood. In size and color it is all right. The stem is from 24 to 30 inches, very sturdy and covered with the blue bloom which makes such a pleasing contrast with a scarlet flower.

... OUR ... CARNATION NOVELTIES — For 1907 —

Winsor, White Enchantress and Helen M. Gould

ONE way to judge carnations is to see them on the exhibition tables. A better and more convincing way is to see them growing; therefore we cordially invite all carnation growers to visit us and judge for themselves regarding the superiority of the above-named sorts.

Our carnation houses are at **Scarborough-on-Hudson**, (not Tarrytown). Friends who desire to visit us can take the N. Y. C. & H. R. R. R. from New York. Trains leave there every half hour. Scarborough is the first station north of Tarrytown. Our grounds adjoin the station, and the greenhouses are about five minutes' walk from the station.

We are growing **25,000 plants of Winsor** for cut flowers, alone, for the new York market this season, which shows the faith we have in it. This will also enable visitors to see it growing in quantity, and besides that, will give us enough plants to get a great abundance of fine, healthy cuttings without over-propagating. We have already booked a large quantity among the large growers, and anticipate for this variety the largest sale of any new carnation that has ever been distributed, as large growers who have seen it are enthusiastic in regard to its value. Those who have seen it have immediately placed large orders for it, so we recommend those who have not ordered to place order without delay, so as to insure early delivery.

For full description of these three valuable novelties, see our wholesale price list.

Wholesale Prices Rooted Cuttings Spring, 1907

WINSOR.—Soft silvery pink. The best color, best keeper, best shipper, best seller—best every way. \$12.00 per 100; \$100.00 per 1000.

WHITE ENCHANTRESS.—Has the large size, long stem, productive habit of Enchantress, but is pure white. \$12.00 per 100; \$100.00 per 1000.

HELEN M. GOULD.—A beautiful sport of Enchantress. Ground color lovely shade of silvery pink, with very fine pencilings of carmine, making an exceedingly exquisite combination. While on close observation this variety is variegated, the general effect is one beautiful tone of dark pink. Exceedingly valuable, because it combines the earliness, freedom, long stem and large size of Enchantress, giving another color possessing all the other desirable qualities of Enchantress. \$12 per 100; \$100 per 1000.

BEACON.—Orange-scarlet. A vigorous, healthy grower, of ideal habit. A profuse bloomer, with long stems. \$12.00 per 100; \$100.00 per 1000.

ARISTOCRAT.—Cerise-pink. Will be planted largely in place of Lawson. \$12.00 per 100; \$100.00 per 1000.

MELODY.—Daybreak sport of Lawson, about the same color as Enchantress, but much brighter, and does not fade like Enchantress. Also a much better keeper and shipper. Those who grow the Lawson varieties exclusively will find this very valuable and desirable, because it gives an improved Enchantress color, which is so popular, and at the same

time can be grown in the same house with the other Lawsons. An extra fine thing in every way and in great demand. A great addition to the Lawson class. \$10.00 per 100; \$75.00 per 1000.

ROSE PINK ENCHANTRESS.—A sport of Enchantress. Color, dark rose pink. \$7.00 per 100; \$60.00 per 1000.

WHITE PERFECTION.—A novelty of 1906, and a variety for which there is a great demand this season. A third larger than Lady Bountiful and a more perfect flower. \$6.00 per 100; \$50.00 per 1000.

VICTORY.—Scarlet. This is giving great satisfaction, being a free blooming, profitable scarlet. \$6.00 per 100; \$50.00 per 1000.

RED LAWSON.—A fine red. Our stock of this is superior to many stocks of Red Lawson that we have seen. \$4.00 per 100; \$30.00 per 1000.

VARIEGATED LAWSON.—The most productive of the variegated sorts. A favorite. Outblossoms Mrs. M. A. Patten. \$4.00 per 100; \$30.00 per 1000.

WHITE LAWSON.—An excellent white. \$4.00 per 100; \$30.00 per 1000.

LADY BOUNTIFUL.—Pure white. \$4.00 per 100; \$30.00 per 1000.

ENCHANTRESS.—\$3.00 per 100; \$25.00 per 1000.

MRS. M. A. PATTEN.—\$3.00 per 100; \$25.00 per 1000.

MRS. THOS. W. LAWSON.—\$3.00 per 100; \$20.00 per 1000.

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

IMPERIAL and PINK IMPERIAL CARNATIONS

You Cannot Afford to be Without these Two Excellent Varieties

Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order

A. J. GUTTMAN,

The Wholesale Florist of New York
43 WEST 28TH STREET

JOHN E. HAINES,

BETHLEHEM, PA.

Carnations

Rooted Cuttings, A No. 1 Stock,
that will give the best
of satisfaction

	Per 100	Per 1000
Helen Goddard	\$6.00	\$50.00
Robert Craig	6.00	50.00
Victory	6.00	50.00
Lieut. Peary	3.50	30.00
Lady Bountiful	3.00	25.00
Enchantress	2.50	20.00
Lawson	2.00	15.00
White Lawson	2.50	20.00
Harry Fenn	2.50	20.00
Cardinal	3.00	25.00
Flamingo	3.00	25.00
Jno. E. Haines	6.00	50.00
Lawson White	2.50	20.00
Red Sport	3.50	24.00
Boston Market	1.75	15.00
Variegated Imperial	12.00	100.00
Pink Imperial	12.00	100.00

Rose Plants

OWN ROOTS PROPAGATED FROM
GRAFTED STOCK

Chatenay, 2½ in.	unpotted 2.50	20.00
Killarney, 2½ in.	4.50	40.00
Richmond, 2½ in.	5.00	40.00
Joe Hill, 2½ in.,	\$8.00 and \$9.00 per hundred	

GRAFTED, ENGLISH MANETTI STOCK

Kalseria, Bride, Maid, Killarney, Richmond, Wellesley, Chatenay, 2½ in.	10.00	100.00
Kate Moulton, own roots	10.00	
" grafted	25.00	

Asparagus Seeds

(TRUE PLUMOSUS NANUS)

Greenhouse grown. \$4.50 per 1000
seeds. Special quotation on lots of
10,000 or more.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILA.

1608-1618 Ludlow St.

JOHN E. HAINES,

The Leading Scarlet

brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass. All shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted, healthy cuttings leave the place. Rooted cuttings ready Dec. 15, 1906. Price, \$6.00 per 100; \$50 per 1000.

JOHN E. HAINES, Bethlehem, Pa.

Don't throw away your Easter Profits

SAVE YOUR PINKS

from splitting by using the M. & D. Artificial Calyx, easily applied and removed, lasts forever, first cost the only cost. \$1.75 per 100; \$15.00 per 1000; 250 at 1000 rate.

MAXFIELD & DIMOND, P.O. Box 304 D WARREN, R.I.

Send for Sample.

Patented.

Rooted Cuttings

CARNATIONS

	Per 100	Per 1000
White Perfection, pure white	\$6	\$50
White Lawson	3	25
Lady Bountiful	3	25
Lieut. Peary	4	30
Red Riding Hood, new scarlet	12	100
Victory	6	50
Cardinal	4	30
Red Lawson	4	30
Daybreak Lawson or Melody	6	50
Enchantress	2.50	20
Helen Goddard	5	45
Fiancee	4	30
Variegated Lawson	3	25
Harlowarden	2	15

Aristocrat, beautiful cerise, the best variety disseminated this season.

MUMS

MARCH 15th.

	\$2.00 per 100	\$15.00 per 1000
Mrs. Mary Mann		Touset
Herstham Yellow		Mrs. Nathan Smith
W. H. Chadwick		White Bonaffon
Golden Chadwick		Glory of the Pacific
Adelia		Majestic
Estelle		Ivory
Cremo		Pink Ivory
Yellow Bonaffon		Mrs. Robinson

ROSES

\$2.00 per 100 \$15.00 per 1000

Mme. Chatenay	Brides
Brides	Uncle John
Richmond	Golden Gate

Chicago Carnation Co.,

A. T. PYFER,
Manager

Joliet, Ill.

MABELLE

New Pink Carnation for 1907

Color—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most Pinks, the brightest sun does not injure the color. Size—3 to 4 inches in diameter when established. Odor—Pleasing, but not strong. Stems—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. Habit, etc.—A very quick, active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. Productiveness—P. odious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. Delivery January 5th to 10th and later.

Price \$12.00 per 100, \$100.00 per 1000

THE H. WEBER & SONS CO., Oakland, Md.

DON'T Be Afraid To Invest In

ROSE PINK ENCHANTRESS

It is both free and "fancy"—a sure money-maker.

Price \$7.00 per 100; \$60 per 1000

Delivery January and later. Write for Descriptive Circular.

S. S. SKIDELSKY

824 No. 24th Street, Philadelphia

CARNATIONS.

Red Chief—Bright scarlet—early and very productive. \$12.00 per 100; \$100.00 per 1000. Average 3 in. flower. A leader in every respect.

Bonnie Maid—Clear pink edged white.—\$12.00 per 100; 100.00 per 1000. Large well formed bloom. Very early and productive.

F. DORNER & SONS CO.
La Fayette, Ind.

NEW DOUBLE PETUNIA

THE QUEEN

a wonderful bloomer; flowers from four to four and one-half inches in diameter; white mingled with purple, nicely fringed; an early bloomer; fine seller for Decoration Day; planted outdoors will bloom all summer. Strong plants, ready Feb. 15, \$1.50 per doz.; \$10.00 per 100; \$90.00 per 1000.

THE YATES FLORAL CO.

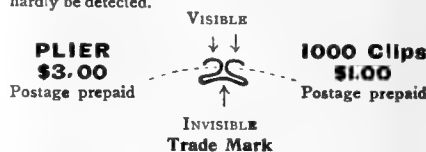
Joseph Traudt, Prop. Canajoharie, N. Y.

Scranton Florist Supply Co.

SCRANTON, PA.

Save Your Split Carnations

The BAUR CLIP and PLIER will do it in a Businesslike manner at a minimum of time and expense. Inexpensive, Instantaneous! Applied and Practically Invisible. The clips are made of galvanized wire and are colored green just the color of the calyx and can hardly be detected.



BAUR FLORAL CO., - Erie, Pa.

DAHLIAS! CARNATIONS! CHRYSANTHEMUMS!

Strong Field roots of leading cactus and other dahlias, such as Krenshilde, Brunhilde, Strahlen Krone, Winsome, Dainty, Lonsdale, Ruth, etc., \$4.00 per 100, \$35.00 per M. Send for full list of kinds.

Carnation and Chrysanthemum cuttings now ready rooted. Field Carnations ready June 25 to bench. We field April 1, and are mammoth by July. Early benching is the thing. Orders booked for July 1 or later delivery. Send for list. Only up to date kinds. Cash with order.

HARLOWARDEN GREENHOUSES
GREENPORT, N. Y.

GOVERNOR HERRICK THE NEW VIOLET

Originated and introduced by
H. R. CARLTON, Willoughby, O.

We have the following stock in the finest condition to plant and now is the time to plant:

1½ inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000
4 " " 2.50 " " 12 " " 75 " 1000

It will pay you. Try it. Order at once.

Dedham, Mass., March 2, 1907.

HORTICULTURE Publishing Co.

Dear Sir:—Please discontinue our advertisement in your paper as we have no more to sell. Send bill for balance.

Yours truly,
HENRY A. STEVENS CO.

WHITE MAID

The Snow White
Sport from Fair Maid

To be disseminated in the Spring of 1908 by the same man who sent out the Queen

If you want stock of this all-round, useful, money-making Carnation, place your order now.

Per 100, \$10.00 - - Per 1000, \$75.00

R. E. MOIR, Brockton, Mass. JOHN BARR, South Natick, Mass.

BEACON CARNATION

(ORANGE - SCARLET)

At Its Best From
Nov. 1st to Apr. 1st
Just When Scarlets Are
In Demand.

**HAS PROVED THE MOST
PROFITABLE COMMERCIAL
SCARLET**

Prices

Per 100, \$12.00, 50 at 100 rate
" 1000, 100 00, 250 " 1000 "
" 2500, \$95.00 per 1000

Per 5000, \$90.00 per 1000
" 10,000, 80.00 " "

In lots of 20,000 or more, cash with order \$75.00 per 1000

MARCH DELIVERY

THE COTTAGE GARDENS CO.
Queens, N. Y.

PETER FISHER (Originator)
Ellis, Mass.

Causes You No Fret and
Worry to Get Returns.
It Works For You
Right Along.

READ THIS TESTIMONIAL

AND BUY YOUR ROSES DIRECT FROM MR. TROY

The silver cup of the Nassau County Horticultural Society was won by Mr. Forbes.

Jericho, N. Y.

Mr. J. H. TROY,

Mount Hissarlik, Nurseries,
New Rochelle, N. Y.

Dear Sir: The consignment of roses received from you last Spring was the most satisfactory I have ever handled. Out of 2,600 plants only ten were lost. That I succeeded in winning the Silver Cup of the Nassau County Horticultural Society for the best collection of hardy out-door roses, November 1st, 1906, speaks volumes for the excellent quality of plants you furnish.

Your truly,

L. G. FORBES,

Gardener to R. J. Preston, Esq. January 30, 1907.

J. H. TROY Mt. Hissarlik Nurseries **New Rochelle, N. Y.**

Manager of the Rosary Flower Co., 24 E. 34th St., New York

Chrysanthemum Novelties

Now ready for immediate delivery.

From 2½ inch pots

MRS. CLAY FRICK

(The white sport of Wm. Duckham)

Price 50c. each, \$5.00 per dozen,
\$35.00 per 100

The finest stock you ever bought of a novelty. My list was mailed you. If you did not get it write me.

CHARLES H. TOTTY

MADISON, N. J.

CHRYSANTHEMUMS

C. Touse and Nonin, the money makers as we have found them. \$1.00 per doz.; \$7.00 per 100; \$60.00 per 1000. Pacific, Estell, Willowbrook, Halliday, Kalb and L. Harriet, 60c per doz.; \$4.00 per 100; Cash with order.

EGGELING FLORAL COMPANY

653 S. Grand Ave., St. Louis, Mo.

EAST BRIDGEWATER DAHLIA GARDENS

not only has one of the largest, but one of the finest collections of any firm in America. We have over a million Dahlia roots to sell this coming season. Send for prices.

J. K. ALEXANDER, Prop., East Bridgewater, Mass.

DAHLIAS.

Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,

Successors to L. K. Peacock, Inc.
ATCO, N. J.



SEED TRADE

The retirement from active business of Mr. E. L. Coy marks the end of a very honorable business career. Mr. Coy has been identified with seed growing in Washington County, N. Y., for over 40 years. He began when this county was an important factor in the seed growing industry of the country. For the past twenty-five years the chief items of seed growing in Washington County have been cucumbers, early varieties of sugar corn and seed potatoes. More or less onion seed was grown there until the growing of this important seed crop became concentrated in California, and until the growing of vine seed crops was largely monopolized by Nebraska, Washington County was the largest producer of cucumber seed of any county in the Union. When the prices paid the farmers faded until they reached the starvation figure of 10 cents per pound, Washington County lost much of its importance, though more or less has been grown every year by Mr. Coy for those seedmen who have always had a discriminating line of customers, wanting and willing to pay for a really superior article. When cucumber seed could be bought in Nebraska at 12 cents, Mr. Coy was receiving 20 and 22 cents, and these higher prices were not paid because of sentimental considerations, for the great majority of seedsmen are intensely practical, but because of superior quality, as Mr. Coy has for the past quarter of a century possessed the finest general line of cucumber seed stocks of any grower or dealer in this country.

A letter sent out by Mr. Coy announces that he has sold his seed stocks and good will to the Jerome B. Rice Seed Co., of Cambridge, N. Y., and it is only just to state that his mantle could not have fallen on more competent or worthy shoulders. This firm is even older in the seed growing business than Mr. Coy, having made a beginning upwards of 75 years ago, and has divided the honors with him since his advent into the field.

Possessing Mr. Coy's high grade stocks, there seems to be no reason why his successors should not inherit most of his business.

A report from Special Agent Harry R. Burrill, written from Sydney, furnishes information about catalogues and other printed matter sent through the foreign mails which will be serviceable to business men. He writes:

"Tons of American catalogues are destroyed every year by the customs authorities of Australia for the reason that business men here to whom they are addressed by manufacturers and exporters of the United States decline to pay the duty of 3d., or 6 cents in American money, per pound, assessed on them as advertising matter imported for distribution. This is a loss which can not be estimated in dollars and cents. Because of negligence or unfamiliarity with the tariff provisions of Australia these descriptive circulars, catalogues, and price lists generally fail to reach their destination, and consequently all opportunity for trade which might be obtained through their perusal is lost. This useless waste of money, time, and oppor-

tunity can easily be avoided if American exporters who desire to circularize the trade will discontinue their present methods and adopt a system that will insure prompt delivery and acceptance of their printed matter."

Most of the California seed growers have shaken the snow from their "goloshes," and hied them to the land of sunshine and flowers. Albeit, there is much moisture mixed with the sunshine and flowers at this season of the year, but as for ice and snow—well, one has to get above the line where the odorous leeks and onions grow to find them. One pilgrim from the Golden West, our genial friend, Chas. P. Braslan, still lingers, and braves the arctic temperatures, and as he claims to be fully booked up on the prospective crop of 1907, he must be searching for the North Pole, or some other equally alluring prize.

Hogg & Lytle of Port Hope, Ont., have established themselves in Port Huron, Michigan, where they intend to grow peas and beans on a large scale to supply their rapidly increasing trade on this side of the line.

The Greensboro Floral & Seed Co. is a new name in Greensboro, N. C., but the members of the concern are experienced seedsmen.

CATALOGUES RECEIVED.

Wm. H. Moon Company, Morrisville, Pa.—Wholesale list of ornamental nursery stock.

E. E. Stewart, Rives Junction, Mich. 1907 Trade Price List of Gladioli, Bulbs and Hardy Plants.

Wilfrid Wheeler, Concord, Mass.—Catalogue of northern grown Strawberry Plants and other small fruits, Asparagus roots, etc.

Eastern Nurseries, M. M. Dawson, Mgr., Jamaica Plain, Mass.—Wholesale Trade List, Spring 1907. A list of desirable ornamental shrubs and border plants.

Rennie & Thompson, Providence, R. I.—A handsome catalogue and, being the first publication of this young firm, a good starter for the career of "None-Superior Seeds."

John H. Sievers & Co., San Francisco, Cal.—Wholesale price list of new carnations, tuberous begonias, pelargoniums, etc. A portrait of the firm's prize introduction, Carnation Hannah Hobart, adorns the cover.

East Bridgewater Gardens, J. K. Alexander, Prop., East Bridgewater, Mass.—Catalogues of dahlias offered by the "Eastern Dahlia King." Twenty-seven acres of dahlias are to be grown the coming season by Mr. Alexander.

Arthur Cowee, Meadowvale Farm, Berlin, N. Y.: "The Gladiolus." An enticing little book with a handsome colored plate and numerous half-tone pictures. Mr. Cowee has a planting of one hundred acres of his beloved specialty each season, and his devotion for many years to the study and culture of the gladiolus has given him the prestige to which his industry and experience entitle him. The pamphlet we are noticing will find a host of appreciative readers.

BEGONIA BULBS

We have a very fine large stock of plump bulbs, of the most improved type.

	Single	Double
	100 1000	100 000
Crimson	\$2.75 \$23.50	\$5.00 \$40.00
Orange	2.75 23.50	5.00 40.00
White	2.75 23.50	5.00 40.00
Pink	2.75 23.50	5.00 40.00
Yellow	2.75 23.50	5.00 40.00
Scarlet	2.75 23.50	5.00 40.00
Mixed	2.50 22.00	4.00 35.00

ASPARAGUS PLUMOSA SEED

Fine, plump, well germinating seed, all grown in-doors, carefully harvested.

	100 seeds	1000 seeds	5000 seeds
Extra quality	50c.	\$4.00	\$19.00
Good .....	.40c.	3.00	13.75

Send for our FLORISTS' WHOLESALE Catalogue, also general Seed Book.

HENRY F. MICHELL CO.

1018 MARKET ST.,

PHILA.

W. & D. SPECIALTIES for FORCING

Mignonette, "New York Market," Sweet Peas, "True," Christmas Flowering, (pink and white), Tomato, "The Don," "Singing Castle," Mushroom Spawn, "English" and "Pure Culture." Send for 1907 Catalogue.

Weeber & Don, Seed Merchants & Growers
114 Chambers St., New York

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY & CO.

32 & 33 So. Market St.,

BOSTON

CHILDREN'S GARDENS AND THE TRADE.

Editor HORTICULTURE:

I was very much interested in the article from the pen of Henry Saxton Adams in the last issue of HORTICULTURE concerning the relations of children's gardens to the horticultural trade.

For several years we have taken the matter up in our annual seed catalogs in a small way, trying to get the scholars and teachers of our public schools interested in the delightful and instructive work of horticulture. We have always been glad to make a special low rate on all kinds of seeds that were to be used for the purpose.

There are several charitable institutions in this State where for years we have furnished the children free of charge a liberal lot of seeds for their gardens, and we have been more than repaid after witnessing the pleasure they derived from these gardens.

We hope in a few years that an hour's garden work several times a week will be given to every child in our public schools. In these days to allow a child to grow up without planting a seed or rearing a plant is a crime against civilized society.

Truly yours,

WM. R. KIMBALL, Mgr.,
Pine Tree State Seed Co.

Cincinnati, Feb. 18, 1907.

Gentlemen:—Kindly discontinue my advertisements of Hanging Baskets as I am way behind on orders.

Respectfully,

F. W. BALL.

COMMENTS ON ROSES AT ELIZABETH PARK.

Although it is still a far cry to out of door rose time, a few notes as to recent additions to this famous rosary may be of interest.

Among Hybrid Teas, such comparatively new sorts as Richmond, Wellesley, and La Detroit have done splendidly, and for persistent, all-summer blooming, have easily proven their claim to greatness; another strong point in their favor is that they are sufficiently hardy to stand our winters with the same amount of protection as is given the Hybrid Perpetuals.

Of the recent European additions to this class, the following are worthy of mention:

Antoine Rivoire. Rosy flesh color on yellow ground, growth vigorous and erect, an ideal bedding rose.

Betty. Coppery rose, a vigorous grower, blooms profusely all through the season. On account of its unique color this rose is bound to become popular.

Captain Christy (Rose). Identical with the famous old variety except in color, which is a fine deep rose.

Crimson Crown. A fine flowering variety of vigorous growth, color deep glowing crimson, shaded white at base of petals.

Etoile de France. A decidedly desirable variety, color velvety crimson with lighter centre, a hardy strong grower.

Gruss an Teplitz. This sterling variety is not so largely used as a bedding rose as it should be. It is of hardy, rugged constitution and blooms continuously until the arrival of frost. The color is brightest scarlet and altogether we consider it one of the very best in its class.

Pharisaer. Rosy white, fine long buds, opening into large handsome blooms, a vigorous grower and will doubtless become a favorite bedding rose.

Several new comers in this class, such as George Laing Paul, Lady Wenlock and Lady Ashtown have not yet been sufficiently tried out in our latitude to enable us to speak definitely of their merits.

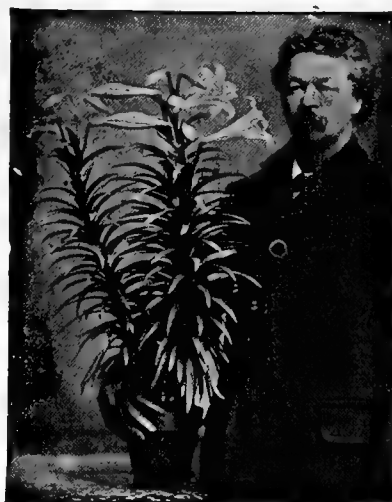
Within the last few years the Hybrid Tea has rapidly advanced in public favor and it would seem that in all public gardens or where continuous display is important, this is unquestionably the rose of the future. The only possible objection to the Hybrid Tea as a bedding rose is that some varieties are rather tender to withstand our Eastern winters and it would seem that American hybridizers, with this fact in view, are steadily introducing hardier blood.

Among Hybrid Perpetuals of recent introduction, the varieties worthy of special mention are:

Frau Karl Druschki, snow white, flowers large and beautiful, a hardy, vigorous grower and one of the most continuous bloomers in this class. The bed of "Frau Karl," contains about thirty plants and it attracted more attention than any other variety in the garden.

Hugh Dickson, shaded scarlet, and **Hugh Watson,** bright crimson, are noteworthy as being free flowering and vigorous growers.

The dwarf Polyantha or fairy roses deserve special mention on account of



Spiraea Gladstone, large bushy plants, 6 and 7 inch pots, 50c., 75c., 1.00 each.

Spiraea superba, 6 inch, 25c. to 35c. each.

Cineraria hybrida, 6 inch pots, all shades, 3.00, 4.00, 5.00 per dozen.

Hydrangea Otaksa, 6 and 7 inch pots, 50c., 75c., 1.00 each.

Crimson Rambler, Roses, 6 inch pots, 3 ft. high and over, 1.00, 1.25, 1.50, 2.00 each.

Hyacinths, all shades, 4 inch pots, 12c.

Touresol Tulips, 3 plants in a 4 inch pot, 12.00 per 100 pots; 1.80 per dozen.

Double Von Sion Daffodils, 3 plants in a 5 1/4-6 inch pot, 2.50 per dozen pots.

Araucaria excelsa, 6 inch pots, 6, 7 and 8 tiers, 1.00, 1.25, 1.50 each.

A. excelsa glauca, 6 inch pots, 5 and 6 tiers, 1.00, 1.25, 1.50 each.

A. compacta robusta, 7 inch pots, 30-35 inches high, very fine, 2.00 to 3.00 each.

Specimen glauca, 7 inch pots, 3.00 each.

Please mention if pots are wanted. Cash with order please. All goods must travel at purchaser's risk.

GODFREY ASCHMANN, 1012 Ontario Street, Philadelphia, Pa.
Wholesale Grower and Importer of Pot Plants.

their hardiness and free flowering qualities. They are used here extensively for both bedding and underplanting. Some thirty varieties are grown, the best of the newer sorts being Eugenie Lamesch; orange yellow, shaded rose; blooms in great trusses; a novel and really desirable variety.

Kleiner Alfred. Bright red, suffused yellow, a beautiful and unique addition to this class.

Leonie Lamesch. Bright copper red with golden centre, flowers produced single, distinct and beautiful.

The much lauded Baby Rambler belongs to this class, and as a perpetual bloomer it is certainly all that is claimed for it. The Polyanthas as a family, possess many excellent features and well deserve a place in every rose garden.

Of trellis roses, not to mention the indispensable Crimson Rambler, the following sorts are valuable here:

Carmine Pillar. Rosy carmine, flowers single, large and very showy, remains in bloom about six weeks.

Dorothy Perkins. Soft bright pink, a hardy, vigorous climber. On the arches here this fine variety produced shoots 24 ft. long in a single season and these wonderful growths wintered perfectly.

Helene, a seedling of Crimson Rambler and an even stronger grower than the parent; flowers large, delicate violet.

Lady Gay, Hiawatha and Wedding Bells are excellent, being vigorous growers and perfectly hardy.

Leuchstern, Philadelphia Rambler, Psyche and Rubin are also good and

make a very fine showing on the trellises.

ALEX CUMMING, Jr.

BUSINESS CHANGES.

W. R. Conover has purchased the business of T. A. Butler, Shawnee, Okla.

Miller & Cowgill, Alliance, O., have dissolved partnership, and the business will hereafter be carried on by Mr. Miller. Mr. Cowgill has leased the Bonsall greenhouse at Salem, O.

The East Liverpool Potteries Co. (Ohio), formed in 1900 with a capital stock of \$1,000,000 was dissolved at the stockholders' meeting on January 17. The stockholders will divide their interests between the U. S. pottery at Wellsville and the Globe pottery E. Liverpool.

Nephrolepis Whitmanii, strong plants from 2 1/4 in. pots, \$10.00 per hundred.
Nephrolepis Elegantissima, 2 1/4 in. pots, \$5.00 per hundred.

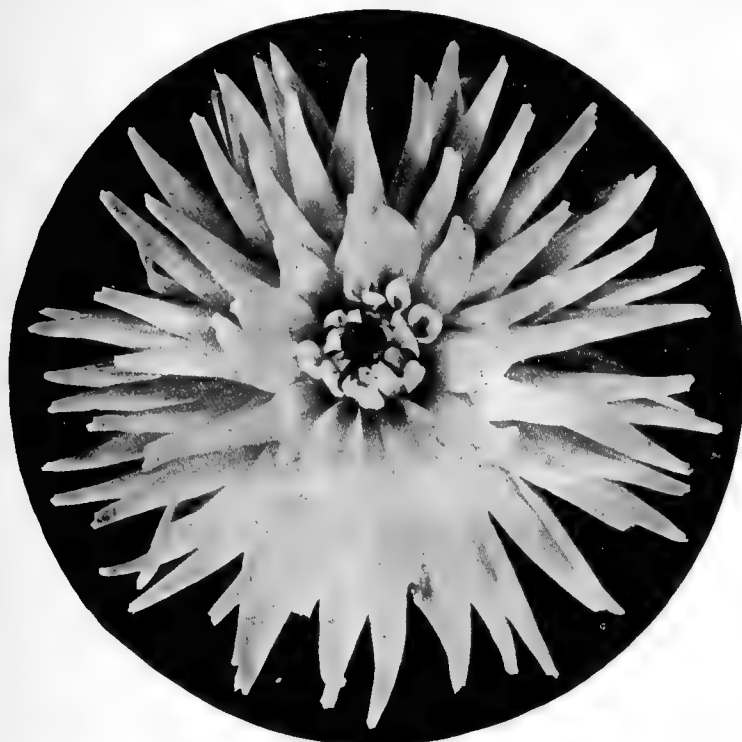
P. R. QUINLAN,
SYRACUSE, N. Y.

WHITMANI
2 1-4 inch, \$10 per 100
BOSTONS
2 1-4 inch, \$3.00 per 100
H. H. BARROWS & SON Whitman, Mass.

DREER'S SELECT DAHLIAS

VARIETIES SPECIALLY SUITED FOR CUT FLOWERS

Strong dormant field roots, grown at our own Nurseries where every precaution has been taken in the handling, and our customers may depend on receiving stock absolutely true to name



	Per doz.	Per 100
A. D. Livoni, (Quilled). Pink.....	\$1 00	\$8 00
Aegir, (Cactus). Warm cardinal red.....	1 00	8 00
Admiral Dewey (Decorative). Rich French Purple.....	1 00	8 00
Aut Chloe, (Cactus). Rich black maroon.....	1 00	8 00
Baron Schroeder, (Decorative). Purple with bluish shadings.....	1 00	8 00
Catherine Duer, (Decorative). The favorite Newport red.....	1 00	8 00
Clifford W. Bruton, (Decorative). Bright yellow.....	1 00	8 00
Countess of Lonsdale, (Cactus). Pleasing salmon.....	1 50	10 00
Eva, (Cactus). Medium sized, pure white.....	2 50	15 00
Earl of Pembroke, (Cactus). Rich plum color.....	1 00	8 00
Fire-rain, (Decorative). New brilliant red.....	3 00	20 00
Floradora, (Cactus). Blood red.....	2 50	15 00
Florence N. Stredwick, (Cactus). A grand white.....	2 50	15 00
Flora, (Cactus). The ideal white.....	4 00	30 00
Frute, (Cactus). Soft rose pink, passing to cream center.....	2 50	15 00
Gigantea, (Giant). An immense creamy white.....	2 50	15 00
Gorellinde, (Cactus). Finest yellow.....	2 50	15 00
Grand Duke Alexis, (Quilled). Standard ivory white.....	1 50	10 00
Hohenzollern, (Cactus). Bronzy orange.....	1 00	8 00
Keyne's White, (Cactus). Free flowering white.....	1 00	8 00
Kriemhilde, (Cactus). Soft pink.....	1 50	10 00
Lyndhurst, (Decorative). Brilliant red.....	1 00	8 00
Lenau, (Cactus). Coral red suffused apricot.....	4 00	30 00
Mary D. Hallock, (Quilled). A useful yellow, very free.....	1 00	8 00
Mme. Alfred Moreau, (Show). A fine large pink.....	1 50	10 00
Miss May Loomis, (Show). White suffused with soft rose.....	1 50	10 00
Mrs. Winters, (Decorative). Fine white.....	1 00	8 00
Mrs. Roosevelt, (Giant). Pink.....	2 50	15 00
Nymphaea, (Decorative). Light Pink.....	1 00	8 00
Sylvia, (Decorative). Soft pink.....	1 00	8 00
Standard Bearer, (Cactus). Rich fiery scarlet.....	1 00	8 00
Strahlen Krone, (Cactus). Intense cardinal red.....	1 00	8 00
Thuringia, (Cactus). Very large, fiery red.....	4 00	30 00
Uncle Tom, (Cactus). Deep maroon.....	2 50	15 00
Victor Von scheffel, (Cactus). Beautiful soft pink.....	2 50	15 00
Volker, (Cactus). A grand yellow.....	1 50	10 00
Winsome, (Cactus). A fine white.....	1 50	10 00
Wm. Agnew, (Decorative). Brilliant red.....	1 00	8 00
White Swan, (Show). A good white of medium size.....	1 50	10 00
Waltheri, (Cactus). Sulphur shading to white center.....	4 00	30 00
Zephyr, (Cactus). Crimson carmine.....	2 50	15 00
Zulu, (Decorative). Deep maroon shaded black.....	1 00	8 00

SINGLE CENTURY DAHLIAS — Good Divided Roots — Field-grown Stock

	Per doz.	Per 100		Per doz.	Per 100
Crimson Century. Rich velvety crimson.....	\$2.00	\$15 00	White Century. Large pure white.....	4 00	30 00
Scarlet Century. Brilliant rich scarlet.....	3 50	25 00	Twentieth Century. The standard single.....	1 50	10 00

For full descriptions of the above, as well as for a complete list of all the good varieties of Dahlias, new as well as standard sorts, see our current **QUARTERLY WHOLESALE LIST** just issued, which also contains offers of all seasonable Plants, Bulbs and seeds

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

GERANIUM

Wholesale catalogue and price list contains descriptions of seventy-five of the best standard sorts and 100 imported novelties, sent free to trade only.

R. VINCENT, Jr. & SON
WHITE MARSH, MD.

Beautiful New Pink Rose
AURORA

See announcement and full description in "Horticulture," December 8 issue.

PAUL NIEHOFF, - Lehighton, Penn.

CERANIUMS

Our selection \$18 00 per 1000, composed of the following varieties all to name: S. A. Nutt, Poitevine, I. a Favorite, Perkins, Brett, Viaud, Castellane, Doyle and several others out of 2 1-4 in. pot, with or without soil.

	2 1-4 in pot per 100	Rooted Cuttings per 100
Fuchsias in variety,	\$3.00	\$1.00
Heliotrope,	2.50	1.00
Sweet Alyssum,	2.00	1.00
Lobelia,	2.00	1.00
Ageratum,	1.50	.50
Rose Geranium,	2.00 fine plants	
Coleus in variety,		.60
Coleus Golden Bedder,		.60

Cash must accompany order.

J. E. FELTHOUSEN
154 Van Vranken Av., SCHENECTADY, N. Y.

ASPARAGUS

Plumosus, Robustus and Sprengerii

Three inch stock ready for fours. Send ten cents for samples and prices.

ALBERT M. HERR, Lancaster, Pa.

SEITARO ARAI

Yokohama, Japan

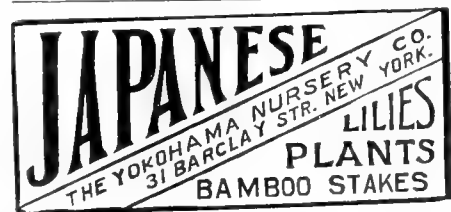
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Sole Representatives in U. S. and Canada

12 West Broadway, New York

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MAKE A GORGEOUS DISPLAY

I have the finest lot of trained **Easter Ramblers** in the country and am now booking orders for their delivery at proper time. **Crimson Ramblers** in bush form, \$2 to \$3 each. **Baskets**, \$2.50 to \$12. **Chairs**, \$8 to \$12. **Crowns**, \$5 to \$15. **Crosses**, **Pyramids**, **Umbrella**, **Automobile**, **Bicycle**, etc. at corresponding prices. **Dorothy Perkins Ramblers** in similar styles; also **Lady Gay Ramblers**, \$3 to \$5 each. **Baby Ramblers**, \$6 to \$9 per doz.

AZALEAS, ERICAS, GENISTAS

On these specialties I have no superior. **Azaleas** are superb this year and the proportion of the popular but scarce pyramidal form is large. Quotations by dozen or hundred lots. We have the **Firefly** and **Chas. Euke** in quantity. **Ericas**, **Persoluta Alba**, **Cupressina**, **Cavendishii** and **Translucens**, are splendid and every up-to-date florist should have them. **Hydrangeas**, **Oranges**, **Tulips**, **Boronias**, **Gardenias**, **Cyclamens**, **Daisies** and a host of other desirable things. Write for prices.

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*Largest Importers, Exporters, Growers
and Hybridists in the World*

**Sander, St. Albans, England
and 235 Broadway, Room 1
NEW YORK CITY**

—ORCHIDS—

Some of the varieties we shall import this spring:
Cattleyas, **Trianae**, **Labiata**, **Mossiae**, **Mendellii**, **Speciosissima**, **Gigas**, **Schroderae**, **Dendrobiums** **Notile**, **Wardianum**, **Phalaenopsis**, **Vandas** **Cerulea**, **Kimballiana**, **Oncidium** **Vanicum**, **Laelias** **Anceps**, **Autumalis**, **Albida**. Write for prices on above.

CARRILLO & BALDWIN, SECAUCUS, N. J.

ORCHIDS Importations, 1907

Save money and get our quotations on **Cattleya labiata**, **Trianae**, **Percivaliana**, **Mossiae**, **Mendellii**, **Schroderae**.

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Largest Orchid growers and importers in U. S.
RUTHERFORD, N. J.

Orchids for Spring Delivery

Cattleyas, Laelias, Oncidiums, etc.

Write for price list. Finest quality of Peat and Moss and Orchid Baskets on the market.

Give me a trial order.

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We are giving quotations upon our entire list of South American, Philippine and East Indian Orchids. Choice varieties of **Cattleyas**, **Odontoglossums**, **Pilumna**, **Cypripedium**, **Phalaenopsis**, **Dendrobiums** and **Vandas**. Among them the very rare **Vanda Sanderiana** for delivery June or July.

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We Are Headquarters for Orchids

We collect, import, grow and deal in this class of plants exclusively. If you are in the market for Orchids, we can supply your wants at fair prices. Our stock of Orchids is the largest and the finest in the country.

We respectfully solicit your inspection of our exhibit at the American Rose Society's exhibition in Washington, D. C., March 13—15, '07.

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Orchid Growers and Importers

... Established 40 Years ...

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NEW ROCHELLE, N. Y.

Most Complete Horticultural Establishment in America

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ORDER NOW your stock of the best **PINK ROSE** of recent origin. Plant it in large numbers. It is no experiment, but has been proven to be the best pink variety on the market. Rooted cuttings all sold out. Plants in 2 1/2 inch pots for late March delivery will be ready. Order direct from the originators.

MINNEAPOLIS FLORAL CO., Minneapolis, Minn.

Write for Prices.



AZALEAS for EASTER

We have a splendid lot of beautifully budded plants for Easter. All colors.

50c, 75c, \$1.00, \$1.50, \$2.00 to \$5.00 each

Can be shipped by express with or without pots

BOBBINK & ATKINS

Nurserymen and Florists

RUTHERFORD, N. J.

EASTER of 1907 We Invite Inspection of Our

Azaleas
Hydrangeas
Lilies
Crimson Ramblers
Daisies

Roses
Pink Ramblers
(Lady Gay, Dorothy Perkins)
Bougainvillea
Genistas

Rhododendrons
Gardenias
Ferns
Tulips (Pots and Pans)
Also *Ficus Pandurata*

COME AND LOOK US OVER.

PRICE LIST ON APPLICATION

ROBERT CRAIG CO., 49th and Market Sts., Philadelphia, Pa.

EASTER STOCK

HYDRANGEAS
EASTER LILIES
AZALEAS, 50c. to \$7.50
GLADSTONE SPIREAS
RAMBLER ROSES
HERMOSA ROSES
TULIPS, (in pans)
HYACINTHS, (in pans)
DEUTZIAS
RHODODENDRONS, etc.

WILLIAM C. SMITH
61st and Market Street, PHILA.

Market Street cars take you direct to our door. Mention Horticulture when you write.

Azaleas for Easter

From 50c. to \$5 in all colors

Also a fine lot of Palms in all sizes, such as Kentias, Arcas, Latanias, Phoenix and Cocos, Pandanus Veitchii and utilis, Crotons, Dracaenas, Nepenthes, Aralias, Araucarias, Aspidistras, Ferns suitable for dishes, in leading varieties. Cibotium Schiedel from \$1.00 to \$3.00 each.

Wholesale Price List on application.

A. LEUTHY & CO.,
Importers and Exporters, Growers and Dealers,
Perkins St. Nurseries, Roslindale,
BOSTON, MASS.

AZALEAS FOR EASTER

Now is the time to get Azaleas. Our plants are shapely and well budded. We offer the following varieties:

Mme. Van der Cruyssen, Deutsche Perle, Mme. C. Van Langenhove, Vervaeana, Empress of India, Bernhard Andrea Alba, Helen Thielman, and Simon Mardner. A fair proportion only of Mme. Van der Cruyssen and white sorts supplied with each order.

Prices, (f.o.b. New York): 10 to 12 inch heads, \$6.00 per doz., \$45.00 per 100; 12 to 14 inch heads, \$7.00 per doz., \$55.00 per 100; 14 to 16 inch heads, \$10.00 per doz., \$75.00 per 100.

PETER HENDERSON & CO., 35-37 Cortlandt St., New York

FINEST BULBS, NURSERY STOCK, PALMS
AZALEAS, BAYS, ROSES, BUXUS, EVER-
GREENS, and LILY OF THE VALLEY
"EXCELLENTA" and "SUPERIOR."

JOHN SCHEEPERS & CO., 4 and 6 Old Slip, NEW YORK CITY

4000 Azaleas for Easter

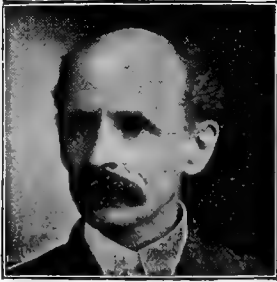
ALL COLORS
Prices from
50c to \$5

Also LILIES, GENISTAS, HYDRANGEAS, SPIRÆAS, BOUGAINVILLEAS, and LILACS. All Elegant Stock. Order Now.

John McKenzie, - North Cambridge, Mass.

NOW IS A CHANCE TO SEND IN YOUR ADVERTISEMENT FOR
The Easter Number

WE GO TO PRESS MARCH 21.



CALDWELL THE WOODSMAN,
Introducer of the Wild Smilax.

Wild Smilax, \$2.50 per case.

THE ONLY PLACE WHERE YOU CAN ALWAYS GET IT.

Long Needle Pines, \$1.00 per dozen. Palm Crowns, \$2.50 per dozen. Extra nice long-stemmed Palm Leaves, \$2.50 per 100. Magnolia, \$2.50 per case, 16 cubic feet. Sheet Moss, \$2.00 per sack. Grey Moss, \$2.00 per sack. Galax, \$1.00 per 1000.

Speed a Specialty.

Write for Catalogue.

Caldwell the Woodsman Decorating Co., Inc., **EVERGREEN, ALA.**

ROSES

VIOLETS

GARDENIAS

**CARNATIONS
VALLEY**

AND ALL OTHER CHOICE FLOWERS

In our **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition to our regular wholesale **EVERGREENS** and **FLORISTS' SUPPLIES**

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. **Boston, Mass.**
and 9 Chapman Place,

See our Greens Advertisement on page 271.

L. D. Telephone, Main 2818.

NEWS NOTES.

W. C. King, Albany, N. Y., expects to be in his new quarters at 24 Steuben street on March 15.

James A. Blaisdell has taken a greenhouse in Fall River, Mass., and will be ready for business shortly.

The two hundredth anniversary of the birth of Linnaeus is to be celebrated in Upsal, Sweden, next May.

F. H. Kramer has offered a \$50.00 cup to be bowled for by the visiting and local florists at Washington on March 15.

The firm of Frank A. Main & Co., composed of Mr. Main and Charles H. Barrett, Concord, N. H., dissolved on February 27.

Prompt action saved the new greenhouse of Leon E. Winn, Hudson Bridge, N. H., from destruction by fire last week.

William C. Gloeckner has opened a florist store at 97 State St., Albany, N. Y. Thomas T. Tracy will be connected with the business.

A fire which might have proved disastrous but for early detection occurred in the store of H. Barton, Westfield, Mass., on February 24. The slight loss was covered by insurance.

Gustave Drobish, the oldest florist in the trade at Columbus, Ohio, has been sued for \$500 damages; it being claimed that the smoke from the chimneys of his greenhouses has blackened the walls of the house and polluted the cistern water, of one of his neighbors. The craft here are watching the outcome of this suit with much interest.

Among the most striking floral pieces this year, was one recently made for the Letter Carriers' Association of New York and Brooklyn and presented to members of Congress on

their departure for Panama, in recognition of the increases of salaries lately granted the letter carriers of New York and Brooklyn. The design which was made by Foley of New York was a magnificent "horn of plenty" artistically decorated with over five hundred American Beauty roses, a thousand violets and many other delicate flowers interwoven. The design was over six feet in height.

"How to Cultivate and Care for Decorative Plants for Adornment of Our City and Suburban Home" is the title of a neat little pamphlet being sent out by Alexander McConnell, Winsor Arcade, 571 Fifth avenue, New York. It supplies the information so often sought by the purchasers of house plants in a plain, concise form, and is a good model for imitation by retail florists everywhere.

TO BUY STOCK RIGHT—
Watch the Advertisements in **HORTICULTURE**. You Don't Need to Bother Looking Further.

TRANSFER YOUR Orders For Easter Delivery

Of Plants, Flowers or Design Work

anywhere within 500 miles
of Kansas City, to

SAMUEL MURRAY,

**Coates House
Conservatory**

1017 BROADWAY, KANSAS CITY, MO.

MONEY VALUE

That's what we give always. There's nothing in Florists' Supplies worth having that we cannot supply at right prices and **WE STAND BEHIND THE QUALITY** every time.

Our Tone Ware Vases and Bowls, in Pompeian Designs, are Unequalled for Rich Effect

We have a special CHIFFON in exact floral tints

It is not the cheapest but the best ever offered to the florist trade. Splendid Easter Baskets and Jardinieres are now in stock. Send for latest illustrated catalogue.

H. BAYERSDORFER & CO., 1129 Arch St., Philadelphia, Pa.

JOHN BREITMEYER'S SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada

EASTER GIFTS

Delivered on Order by Telegraph or otherwise in New York or Brooklyn.

WM. H. DONOHUE,
2 West 29th St., New York

Send orders for flowers for delivery in

**BOSTON and all NEW
ENGLAND POINTS to**

THOS. F. CALVIN
124 Tremont St., Boston

The Park Floral Co.

J. A. VALENTINE
Pres.

DENVER, COLORADO
Theodore Miller
FLORIST

Long Distance Phones: Bell, Forest 56; Kinloch, Delmar
4832 Delmar Boul. ST. LOUIS, MO.

Anything of Value

to the profession

CAN BE SOLD

through advertising in

Horticulture

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

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66 Pearl Street, BOSTON, MASS.

P. J. HAUSWIRTH

Temporarily Located
at

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CHICAGO

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1017 BROADWAY, KANSAS CITY, MO
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4326-28 ST. LOUIS, MO.
OLIVE STREET Established 1873
Long Distance Phone Bell Lindell 676

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KANSAS CITY, - MO.
will carefully execute orders for Kansas City and any town in Missouri or Kansas.

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Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON
TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N. Y.

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

571 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
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42 West 28 St., NEW YORK

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1214 F ST NW
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WASHINGTON,
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GUDE'S

Geo. H. Cooke FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

William J. Smyth FLORIST

Cor. Michigan Ave. and 31st St., CHICAGO

We ship to all points in Illinois and Iowa.

Phones: Douglas 744, Douglas 523, Douglas 740

EASTER PLANTS

A COMPLETE LINE FOR THE HOLIDAYS
Send for Price List

LEO NIESSEN CO. WHOLESALE FLORISTS
1209 Arch St., PHILA.
Store open from 7 A. M. to 8 P. M.

SWEET PEAS VALLEY

Pink and White
Extra Choice
\$1.00 per 100

Best in the World
\$3.00 and \$4.00 per 100

S. S. PENNOCK-MEEHAN CO.
THE WHOLESALE FLORISTS OF PHILADELPHIA
1608-1618 LUDLOW ST. Store closes at 8 p. m.

AMERICAN BEAUTY

and all other Roses

LILY OF THE VALLEY
CARNATIONS

WELCH BROS.

226 Devonshire St., BOSTON, MASS.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

EVERYTHING SEASONABLE IN CUT FLOWERS

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Store Closes 8 P. M.

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WHOLESALE

CUT FLOWERS

51 Wabash Av., Chicago, Ill.

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CALAX Green or Bronze
\$1.00 per 1000; \$7.50 per 10,000 Case

W. E. McKISSICK

Wholesale Florist

1221 Filbert St., PHILADELPHIA

BUY YOUR FLORIST SUPPLIES OF

J. STERN & CO.

now 125 N. 10th, above Arch St.,
PHILADELPHIA, PA.

FANCY WHITE LILAC

Beauties. Carnations. Violets

Superb Illustrated Supply Catalogue just
out. Send for one.

A. L. RANDALL CO., 19-21 Randolph St.
CHICAGO.

DAILY CONSIGNMENTS

From 40 to 60 Growers

We can care for your cutflower wants to
advantage.

E. F. WINTERSON CO.

45-47-49 WABASH AVE., CHICAGO

ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting
especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building

28 STATE ST., BOSTON

Telephone, Main 58

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO February 17	ST. LOUIS	PHILA. March 4	BOSTON March 7
ROSES				
Am. Beauty, Fan. & Sp.	35.00 to 40.00	..... to	60.00 to 75.00	35.00 to 50.00
" Extra.....	25.00 to 30.00	..... to	40.00 to 50.00	25.00 to 30.00
" No. 1.....	15.00 to 20.00	..... to	25.00 to 35.00	12.00 to 25.00
" Lower grades.....	6.00 to 10.00	..... to	8.00 to 15.00	6.00 to 8.00
Bride, 'Maid, Golden Gate, F. & S.	8.00 to 12.00	..... to	10.00 to 12.00	6.00 to 8.00
" " Extra.....	6.00 to 8.00	..... to	6.00 to 8.00	5.00 to 6.00
" " No. 1 & lw. gr.	4.00 to 6.00	..... to	4.00 to 5.00	1.00 to 3.00
Liberty, Richmond, Fan & Sp.	10.00 to 12.00	..... to	12.00 to 20.00	10.00 to 15.00
" Lower grades.....	6.00 to 8.00	..... to	6.00 to 10.00	6.00 to 8.00
Chatenay, Morgan, Fan. & Sp.	10.00 to 12.00	..... to	15.00 to 18.00	10.00 to 12.00
" Lower grades.....	6.00 to 8.00	..... to	5.00 to 10.00	4.00 to 8.00
Killarney, Wellesley, Fan. & Sp.	10.00 to 12.00	..... to	10.00 to 15.00	8.00 to 12.00
" Lower grades.....	6.00 to 8.00	..... to	5.00 to 8.00	4.00 to 6.00
CARNATIONS				
Fancy and Novelties.....	4.00 to 5.00	..... to	2.00 to 4.00	2.00 to 3.00
Ordinary.....	1.50 to 3.00	..... to	1.00 to 1.50	1.00 to 1.50
MISCELLANEOUS				
Violets, Double.....	..... to .75	..... to .....	.50 to .75	.10 to .50
" Single.....	.50 to .75	..... to .....	.25 to .75	.10 to .50
Cattleyas.....	40.00 to 50.00	..... to	50.00 to 60.00	35.00 to 50.00
Paper Wh. Nar., Rom. Hy., Freesia	3.00 to .....	..... to	2.00 to 4.00	1.00 to 1.50
Tulips, Daffodils.....	3.00 to 4.00	..... to	1.50 to 3.00	1.00 to 1.50
Lilies.....	10.00 to 15.00	..... to	10.00 to 15.00	8.00 to 10.00
Lily of the Valley.....	3.00 to 4.00	..... to	2.00 to 4.00	2.00 to 4.00
Gardenias.....	40.00 to 50.00	..... to	20.00 to 25.00	..... to 25.00
Mignonette.....	4.00 to 8.00	..... to	2.00 to 4.00	1.00 to 2.00
L. Jacs (too bunches).....	..... to .....	..... to	35.00 to 75.00	..... to
Adiantum.....	1.00 to 1.50	..... to	1.00 to 1.50	1.00 to 1.50
Smilax.....	12.00 to 15.00	..... to	15.00 to	12.00 to 16.00
Asparagus Plumosus, strings.....	25.00 to 50.00	..... to	50.00 to .....	..... to 50.00
" & Spreu. (too bchs).....	25.00 to 50.00	..... to	30.00 to 50.00	35.00 to 50.00

POEHLMANN BROS. CO.

Grow and Ship the Finest

AMERICAN BEAUTIES

in the World.

35-37 Randolph St., - CHICAGO, ILL.

**The Florists' Supply House
of America**

Can fill hurry orders. Telephone or Telegraph

H. BAYERSDORFER & CO.

1129 Arch St., Philadelphia

TO BUYERS

Patronize our Advertisers, they will treat you right

Cut Flower Market Reports

BOSTON

The flower market of Boston is in a very demoralizing state at present and prospects are not particularly favorable for any immediate improvement. All crops, with the single exception of American Beauty roses, are on the increase, and most of them are already far beyond all reasonable proportions. Roses are more abundant and cheaper than at last report. Carnations are very much overstocked and top figures on special grades are maintained under difficulty. Violets are selling more disadvantageously than at any time during the past year. Tulips, daffodils and Dutch bulb stock generally are in bad straits, and lily of the valley goes slow. Lilies are increasing in supply and selling slowly. Sweet peas are a veritable drug, although the quality is superb as a rule. Narcissus poeticus ornatus are now in and are sold with difficulty at 50 cents to \$1.00 per hundred.

The weather the past week has been fairly clear averaging considerable warmer than heretofore.

BUFFALO

Business not flourishing but an enormous supply of stock was received. Carnations and bulbous stock especially tulips and daffodils overflowing and much of this was moved at prices away below quotations, and many retailers instituted bargain sales on Friday and Saturday at values not encouraging for bulb growers. Carnations also suffered, especially Lawson and the ordinary quality, while the fancy had a hard road to travel. Teas, Richmond and Liberty are now fine but not too plentiful but the shorts are too many at times. Prices on Beauties have been holding wonderfully well; the growers with few exceptions say that Beauty has not paid for the past two months, they being off crop continually and the shipments in consequence have been very small. Many of the stores are complaining of trade being dull because of Lent, but on the average they have to be satisfied with a little floral work now and then. The quality of valley has not been better for some time but no demand, the same with lilies which are carried along from day to day hoping for "demands." Violets are in full swing but prices have been low. All in all the past two weeks have been the worst we have had in some time.

COLUMBUS

Business continues as good as ever but, as outlined last week, prices have begun to give way but the best florists are maintaining prices in good shape; in fact, they must on the best American Beauty and other roses as these are in very short supply. All the craft have already begun to make plans for Easter, and that a great trade will be done this year there can be no ques-

tion. The seedsmen are getting busier and busier; it is now only a question of getting the orders out fast enough.

DETROIT

Trade has not been very encouraging since last report. Everybody's carnations seem to be in crop just now, and a glut pure and simple is the result. Roses are still scarce and holding prices

well. Violets are plentiful and bulbous stock joins hands with carnations. Smilax and ferns are hard to obtain. The outlook for Easter lilies in this vicinity is good and as March is starting in with a good snow storm the hopes for good Easter weather are rising. The same may be said of bulbous stock and violets, but a shortage in carnations and roses seems to be an assured prospect.

INDIANAPOLIS

Trade is slower than a week ago, funeral work constituting the bulk of the business with the retailers. Flowers are much more abundant with the single exception of roses which still continue scarce. Beauties especially are not yet sufficient for demands and prices hold up remarkably well. Killarney and Richmond are of fine quality and maintain their popularity. No particular change of prices in anything is noted. Bulbous stock is in large supply, but there is no glut as in previous years. Sweet peas, lilies, callas and other seasonable stock are in sufficient supply to meet all demands. Smilax adiantum, plumosus and Sprengerii are in special demand with inadequate supply.

NEW YORK

Business is very quiet; the market is well supplied with carnations and all roses except Beauty. Carnations are very plentiful and cheap. Yellow bulbous stock is a glut, and cannot be cleared at any price. Violets are now in larger supply than at any time during the season and are moved with difficulty as the best trade is using very few. Ordinary grade gardenias are far too numerous to command anything approaching a steady price. Shipments of sweet peas, freesias, stocks, daisies, etc., are getting heavier daily.

PHILADELPHIA

Market here last week in favor of the buyers nearly all along the line. Stock piled up daily but a glint of mild weather on Saturday gave an outlet which helped

The New "Market"

..Opening Announcement..

¶ Messrs. Berger Bros., beg to announce the opening of their new store at 1305 Filbert St., (the old Dumont place), where they will be pleased to greet their old friends and customers, and extend to them the courtesies and facilities of an up-to-date commission house. They also wish new connections—both in buying and selling—and respectfully solicit a visit or enquiry. Their motto:

"Good service and a square deal all round."

Try the New "MARKET"

BERGER BROS., Wholesale Florists
1305 Filbert Street, **PHILADELPHIA**

to clean up the surplus fairly well and gave the street men their first good day for many weeks. Both roses and carnations eased up in price with quality about normal. Beauties have improved slightly but are still scarce. White roses are also more plentiful. Violets although low in price are selling well. Orchids are scarce. Lily of the valley too plentiful and quite draggy. Sweet peas are of extra fine quality at present and immense quantities of same are being disposed of. Other staples remain about as last week.

Lent so far has not cut much figure with the trade in general.

TWIN CITIES

Stock is plentiful, and a decided oversupply on carnations of medium grade, which have fallen into the hands of the Greeks, and have been sold at low prices. Easter plants especially azaleas, spireas, and Baby Ramblers are in evidence with the retailers; they all carry more or less no doubt for the purpose of inducing Easter orders, but it seems a little too early as no Easter business has as yet been placed. The arrival of the warm weather has greatly increased the demand and bulb stock is moving satisfactorily.

FIRE RECORD.

E. Cartwright of Wellesley, Mass., lost three of his greenhouses by fire on February 28.

J. W. Adams, Normal, Ill., suffered serious loss from fire on February 22. Of his three well-filled houses only a small part of the stock was saved. No insurance is reported.

A fire which broke out in the office of the Lutey Floral Co., Chassell, Mich., destroyed that building and the boiler room. The greenhouses were saved but the plants were frozen as no heat was obtainable.

L. Schiller and Geo. Asmus lost heavily by fire in their store at 660 W. Jackson boulevard, Chicago, on February 21. The business has been transferred to the main store, 897 Madison street, until repairs are made.

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Greens and Beaven's Fadeless Sheet Moss. Write for Samples.

E. A. BEAVEN, Evergreen, Ala.

JOHN YOUNG
WHOLESALE FLORIST
 Finest American Beauties and
 Carnations
51 West 28 St. - NEW YORK

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FINE ROSES FANCY CARNATIONS
 A Full Line of All CUT FLOWERS
 Telephone, 3870 or 3871 Madison Square

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Cut Flowers on Commission
 A Reliable Place to Consign to or order from
 Telephone; 3860-3871 Madison Square

A. L. YOUNG & CO.
WHOLESALE FLORISTS
 54 West 28th St., NEW YORK
 Telephone 3559 Madison Square
 Consignments of choice cut flowers solicited.
 Prompt payments. Give us a trial.

**WHOLESALE
 COMMISSION
 FLORIST**
 Open 6 a. m. Daily

J. K. ALLEN

**106 W. 28 St.
 NEW YORK**
**TELEPHONE 167
 MADISON SQ.**

All Grades of Flowers for All Grades of Buyers

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending March 2 1907	First Half of Week beginning Mar. 4 1907		Last Half of Week ending March 2 1907	First Half of Week beginning Mar. 4 1907
Roses			Carnations, Ordinary	1.00 to 2.00	1.00 to 2.00
Am. Beauty, fan and sp.	40.00 to 75.00	40.00 to 75.00	Violets, double .....	.20 to .50	.20 to .50
" extra	25.00 to 30.00	25.00 to 35.00	" single .....	.15 to .50	.15 to .35
" No. 1	15.00 to 20.00	15.00 to 20.00	Cattleyas	20.00 to 40.00	25.00 to 50.00
" Lower grades	3.00 to 8.00	2.00 to 8.00	Pap. Wh. Nar., Rom. Hy., Freesia	1.00 to 2.00	1.00 to 2.00
Bride, 'Maid, Golden Gate, fan & sp	10.00 to 12.00	8.00 to 10.00	Tuips, Daffodils	1.00 to 3.00	.50 to 3.00
" " " Extra	5.00 to 8.00	6.00 to 8.00	Lilies	8.00 to 12.00	10.00 to 12.00
" " " No. 1 & lw. gr.	3.00 to 4.00	3.00 to 5.00	Lily of the Valley	1.00 to 4.00	1.00 to 3.00
Liberty, Richmond, fancy & special	15.00 to 25.00	20.00 to 30.00	Gardenias	10.00 to 35.00	10.00 to 30.00
" lower grades ..	3.00 to 10.00	3.00 to 12.00	Mignonette	2.00 to 8.00	2.00 to 8.00
Chatenay, Morgan, fancy and spec.	3.00 to 10.00	3.00 to 10.00	Lilacs (too bunches) .....	..... to 1.00	..... to 1.00
" lower grades ..	3.00 to 6.00	3.00 to 5.00	Adiantum .....	.50 to 1.00	.50 to 1.00
Killarney, Wellesley, fan. and spec.	10.00 to 12.00	10.00 to 12.00	Smilax	15.00 to 25.00	15.00 to 25.00
" lower grades ..	3.00 to 6.00	3.00 to 6.00	Asparagus Plumosus, strings	25.00 to 35.00	25.00 to 35.00
Carnations, Fancy and Novelties ..	3.00 to 5.00	2.00 to 4.00	" " & Spren. (too bchs.)	15.00 to 35.00	15.00 to 30.00

ORCHIDS AT ALL SEASONS
WM. STUART ALLEN CO.
 Commission Merchants in Cut Flowers
53 WEST 28TH STREET, NEW YORK
 Telephone 356 Madison Square

Edward C. Horan
Wholesale Florist
 55 WEST 28th ST.
 Tel. 1462 Madison Sq. New York

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WHOLESALE FLORISTS

Furnish best stock at fair prices all the year round Send for quotations on fall orders
 Tel. 798-799 Madison Sq. 44 West 28th Street, New York City

Alexander J. Guttman
THE WHOLESALE FLORIST OF NEW YORK
43 WEST 28th STREET
 PHONES. 1664--1665 MADISON SQUARE
ENOUGH SAID

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EXTRA FINE FANCY and DAGGER FERNS \$2.00 per 1000

DISCOUNT ON LARGER ORDERS

GREEN GALAX, \$1.25 per 1000, 75.00 Case LEUCOTHOE SPRAYS, \$1.00 per 100, \$7.50 per 1000
Let us have your standing order for Fern. Will make price right all through season. BOXWOOD 20c lb., 50 lbs. \$8.50* Wholesale Florists
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Michigan Cut Flower Exchange WM. DILGER
Manager

Send for Our Weekly Price List on Cut Flowers

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Richmond Roses and Rich Flowers
of all varieties**JOS. S. FENRICH**

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Established 1891 BUY FROM ME
SHIP TO TRY**ALFRED H. LANGJAHR**

All Choice Cut Flowers in Season

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Telephone 3924 Madison Square.

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Wholesale Florists

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Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties
and are dealers in

Glassware Decorative Greens and Florists' Requisites

PLANTS, PALMS and FERNScan be furnished at any time and
in any quantity by**CHAS. W. EBERMAN**

53 West 30th St. - NEW YORK

Wholesale Dealer

BOXES BOXES BOXES

LIGHT WOOD CUT FLOWER BOXES

Sizes in Stock

per 100

3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
6 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

Write for samples and prices in car load lots.

GETMORE BOX FACTORY, Incorporated,
BELLEVILLE, ALA.Try a Can of our
Superior Green Car-
nation Coloring\$1.00 per quart 65c. per pint
DOES NOT SPOIL WITH AGE**N. F. McCARTHY & CO.**

Dealer in Florist Supplies

84 Hawley St., Boston, Mass.

Best Flowers

in the Boston Market

N. F. McCARTHY & CO.84 HAWLEY STREET
BOSTON, MASS.

SEND FOR PRICES

Headquarters in Western New York
FOR**ROSES, CARNATIONS**

And all kinds of Seasonable Flowers

WM. F. KASTINGWholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.

BUFFALO, N. Y.

Give us a trial. We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000.

Case of 10,000, \$7.50.

Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

\$1.50 per 1000.

Best Southern Smilax, \$3.50 and \$7 per case.
Headquarters for all FLORISTS' SUPPLIES. Wire Designs,
Cut Wire, Letters, Immortelles, Cycas Leaves, Wheat
Sheaves, Ribbons, Corrugated Boxes, etc

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 15 Province St.,
9 Chapman Pl., Boston, Mass. L. D. Telephone, Main, 2617-2618.**WHOLESALE FLOWER MARKETS. — TO DEALERS ONLY.**

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	March 4		March 4		March 4		March 4	
ROSES								
Am. Beauty, Fan, and Sp.....	50.00	to 75.00	50.00	to 75.00	50.00	to 75.00	35.00	to 40.00
" Extra	25.00	to 35.00	20.00	to 40.00	25.00	to 35.00	20.00	to 25.00
" No. 1.....	15.00	to 20.00	12.00	to 15.00	20.00	to 25.00	8.00	to 15.00
" Lower grades.....	8.00	to 10.00	8.00	to 12.00	3.00	to 6.00	4.00	to 6.00
Bride, 'Maid, Golden Gate, F. & S.	5.00	to 10.00	10.00	to 15.00	10.00	to 12.50	12.00	to 15.00
" " Extra.....	8.00	to 8.00	6.00	to 8.00	8.00	to 10.00	.....	to 10.00
" " No. 1 & lw. gr.	3.00	to 4.00	4.00	to 6.00	4.00	to 8.00	6.00	to 8.00
Liberty, Richmond, Fan, & Sp.	8.00	to 10.00	10.00	to 15.00	10.00	to 20.00	12.50	to 20.00
" Lower grades.....	4.00	to 6.00	5.00	to 8.00	5.00	to 10.00	4.00	to 8.00
Chatenay, Morgan, Fan, & Sp.....	8.00	to 10.00	10.00	to 15.00	10.00	to 15.00	10.00	to 12.00
" Lower grades.....	4.00	to 6.00	6.00	to 8.00	5.00	to 15.00	4.00	to 8.00
Killarney, Wellesley, Fan & Sp.....	.....	to	10.00	to 15.00	..	to	10.00	to 12.00
" Lower grades.....	.....	to	6.00	to 8.00	.....	to	4.00	to 6.00
CARNATIONS								
Fancy and Novelties.....	3.00	to 5.00	3.00	to 4.50	3.00	to 4.00	3.00	to 4.00
Ordinary.....	1.50	to 2.00	1.50	to 2.50	1.50	to 2.00	1.00	to 2.00
MISCELLANEOUS								
Violets, Double.....	.50	to 1.00	.75	to 1.00	.50	to .75	.25	to .75
" Single .....	.50	to 1.00	.50	to 1.00	.40	to .50	10	to .25
Cattleyas .....	.....	to	50.00	to .....	.....	to .....	.....	to
Paper Wh. Nar., Rom. Hy., Freesia	.....	to 3.00	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
Tulips, Daffodils	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00	2.00	to 3.00
Lilies	10.00	to 12.50	15.00	to 18.00	5.00	to 15.00	12.50	to 18.00
Lily of the Valley.....	3.00	to 4.00	2.00	to 4.50	2.00	to 5.00	2.00	to 4.00
Gardenias.....	.....	to .....	.....	to	25.00	to 35.00	.....	to
Mignonette .....	.....	to	6.00	to 8.00	3.00	to 5.00	3.00	to 6.00
Lilacs (100 bunches).....	.....	to .....	.....	to .....	.....	to	75.00	to 100.00
Adiantum	1.00	to	1.00	to 1.50	.50	to 1.00	1.00	to 1.50
Smilax	12.50	to	15.00	to 18.00	15.00	to 20.00	12.50	to 15.00
Asparagus Plumosus, strings.....	40.00	to 50.00	50.00	to 60.00	40.00	to 50.00	40.00	to 50.00
" " & Spreng. (100 bchs.)	25.00	to 35.00	30.00	to	25.00	to 30.00	20.00	to 50.00
Peas .....	.....	to .....	.....	to .....	.60	to 1.00	.....	to

WINSOR CARNATION BLOOMS

Grown by the F. R. Pierson Company

SOLD EXCLUSIVELY BY

NEW YORK CUT FLOWER CO.

55-57 WEST 26 STREET, NEW YORK

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GEO. A. SUTHERLAND CO.**CUT FLOWERS**

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34 HAWLEY STREET - BOSTON

In ordering goods please add "I saw
it in HORTICULTURE."**The KERVAN CO.** 20 WEST
27th ST., N. Y.

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Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leu-
cathoe, Ferns and Mosses. All Decorating Evergreens

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Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 28 State St., Boston.
For page see List of Advertisers.

ACHYRANTHES.

Achyranthes, yellow, mottled red, 2 1-2 in., Sc. Hammerschmidt & Clark, Medina, Ohio.

ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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AMPELOPSIS.

5,000 Ampelopsis Veitchii, pot grown, Dormant, long Tops, \$4.00 per 100, and clean seed \$1.50 per lb. Cash. Benj. Connell, Florist, West Grove, Pa.

ARAUCARIAS

Godfrey Aschmann,
1012 Ontario St., Philadelphia.
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A. Leuthy & Co., Roslindale, Mass.
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ARTIFICIAL CARNATION CALYX

Maxfield & Dimond, Warren, R. I.
P. O. Box 304-D.
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ASPARAGUS

Albert M. Herr, Lancaster, Pa.
Asparagus Robustus.

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Asparagus Sprengeri, 2 in., \$2.25 per 100. Hammerschmidt & Clark, Medina, Ohio.

Asparagus plumosus nanus and Sprengeri, 2 1-2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2 in., \$3.00; 3 in., \$6.00; 4 in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2 in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

Asparagus Crawshawii, a new, beautiful asparagus. Seedlings, \$3.00 per 100; \$25.00 1000; transplanted seedlings, \$5.00 100; \$40.00 1000. Jas. Crawshaw, 403 Plainfield St., Providence, R. I.

ASPARAGUS SEED

S. S. Pennock-Meehan Co., Philadelphia.
For page see List of Advertisers.

ASTERS.

Novae-Angliae Asters, strong, \$3.00 per 100; \$25.00 per 1000. Ellsworth Brown & Co., Seabrook, N. H.

AZALEAS

Peter Henderson & Co., 35 & 37 Cortland St., New York.

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A. Schultheis, College Point, N. Y.

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John Scheepers & Co., 26 Old Slip, N. Y.

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A. Leuthy & Co., Roslindale, Mass.

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Azaleas, well budded, 50's, 75's, and \$1.00 each. C. Whitton, City Street, Utica, N. Y.

BAMBOO CANES

R. M. Ward & Co., 12 W. Broadway, N. Y.
Seitaro Arui, Yokohama, Japan.
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BAUR CARNATION CLIP AND PLIERS

Baur Floral Co., 18 W. 10th St., Erie, Pa.
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BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

BEDDING PLANTS

J. E. Felthousen, Schenectady, N. Y.
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BEGONIAS

Begonias, mixed, many varieties, 2 1-4 in., Sc. Hammerschmidt & Clark, Medina, Ohio.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thorburn & Co., 33 Barclay St., New York.

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A. T. Boddington, 342 W. 14th St., N. Y.

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Rickards Bros., 37 East 19th St., New York.

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H. F. Michell Co., Philadelphia.

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Johnson Seed Co., 217 Market St., Phila.

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John Scheepers & Co., 4-6 Old Slip, N. Y.

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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

Bulbs. Cannas, Dahlias, Gladioli, Oxalis, Madeira and Cinnamon vines, Iris, Peonies. Finest stock. C. Betscher, Canal Dover, Ohio.

CALLAS

Baby Callas, 3 in., \$3.00 per 100. P. A. Baker, Media, Pa.

CANNAS

A. A. T. Boddington, 342 W. 14th St., N. Y.

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The Conard & Jones Co., West Grove, Pa.

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Cannas, Very fine list. Send list of needs. C. Betscher, Canal Dover, Ohio.

Cannas, Pennsylvania, \$2.00; Niagara, Buttercup, \$5.00 per 100. P. A. Baker, Media, Pa.

50,000 Cannas, fine, \$10 to \$15 per 1000. Best sorts. Write Benj. Connell, West Grove, Pa.

Cannas, sound roots, 2 to 3 eyes, true to name: Allemania, Austria, Burbank, Italia, Robusta, Metallica, \$1.25 per 100; \$10.00 per 1000. Martha Washington, Florence Vaughan, Wm. Bofinger, Chas. Henderson, Sec. Chabanne, \$1.50 per 100. America, Black Prins, Mrs. Kathie Gray, Pennsylvania, Coronet, \$2.00 per 100. Pierson's Premier, Souv. d. A. Crosby, Queen Charlotte, Egandale, \$2.50 per 100; \$22.50 per 1000. Black Beauty, Gladiador, Pres. Meyers, new, like King Humbert, \$4.00 per 100. All kinds mixed, \$1.00 per 100; \$7.50 per 1000. Dahlias, leading kinds named, \$3.50 per 100. Shellroad Greenhouses, Grange, Baltimore, Md.

CANNAS—Continued.

Cannas. Good bulbs, 2 or 3 eyes, Austria, Robusta, Augusta Ferrier, King Edward, Victor Hugo, Morning Star, Paul Marquant, Pennsylvania, Robert Christie, Admiral Courbet, Mlle. Berat, Flamingo, Partenope, \$2.00 per 100. Started roots from sand after March 1, \$2.50 per 100. Est. of David Fisher, Woburn, Mass.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.

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S. S. Skidelsky, 824 N. 24th St., Phila.
Rose Pink Enchantress.

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Chicago Carnation Co., Joliet, Ill.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Carnations, Winsor, White Enchantress, Helen M. Gould.

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A. J. Guttman, 43 W. 28th St., New York.

John E. Haines, Bethlehem, Pa.
Carnation Imperial and Pink Imperial.

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F. Dörner & Sons Co., Lafayette, Ind.

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Guttman & Weber, 43 W. 28th St., N. Y.
Carnation Victory.

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H. A. Stevens Co., Dedham, Mass.
Rooted Cuttings.

Peter Fisher, Ellis, Mass.
Cottage Gardens Co., Queens, N. Y.
Carnation Beacon.

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N. Y. Cut Flower Co., 55-57 W. 26th St., New York. J. A. Millang, Mgr.
Carnation Windsor Blooms.

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S. S. Pennock-Meehan Co., Philadelphia.
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Harlowarden Greenhouses, Greenport, N. Y.
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Send for list of rooted cuttings of new and leading commercial varieties of carnations and chrysanthemums. Wm. Swayne, Kennett Square, Pa.

We can furnish several thousand unrooted cuttings of Fair Maid and Queen Louise for immediate delivery at \$6.00 and \$5.00 per thousand. Cohanzie Carnation Greenhouses, New London, Conn.

Healthy rooted carnation cuttings Queen Louise, Hill, Gomez, Norway, Boston Market, \$9.00 per 1000. Melody, \$5.00 per 100. Red Lawson, \$15.00 per 100. Lawson, Harlowarden, Mrs. Nelson, \$12.50 per 1000. White Cloud unrooted, \$4.00 per 1000. Wm. Ehmann, Corfu, N. Y.

CEDAR BEAN POLES

1 1-2 inch butt, 5 ft. to 7 ft. long, \$10.00 per 1000; 2 inch butt, 8 ft. long, \$15.00 per 1000; 2 1-2 inch butt, 10 to 12 ft. long, \$22.50 per 1000. H. R. Akers, Chatsworth, N. J.

CHRYSANTHEMUMS

Eggeling Floral Co., 1653 S. Grand Ave., St. Louis, Mo.

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Charles H. Totty, Madison, N. J.

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Harlowarden Greenhouses, Greenport, New York.

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Chicago Carnation Co., Joliet, Ill.
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CHRYSANTHEMUMS—Continued.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums, Jeanne Nonin, C. Touset, Mrs. Brice, Roi d'Italie, Fred Lemon, Merza, Cobbold, M. Ware, Oct. Sunshine, Beauty of Sussex, \$2.00 per 100. Glory Pacific, Kalb, Monrovia, Polly Rose, Alliance, Mrs. Robinson, J. Shrimpton, Bride, Bonnafton, Halliday, Duckham, Cullingford, Mrs. Chamberlain, Arline, Ermenilda, W. Bonnafton, Princess, M. Friend, Nellie Pickett, Lincoln, W. Jones, G. Wedding, Ben Wells, Yellow Eaton, Enguehard, Mrs. Weeks, Appleton, G. Trophy, Florence Teal, A. Balfour, Intensity, Mme. Perrin, \$1.50 per 100; \$12.50 per 1000. Wm. Ehmann, Corfu, N. Y.

CINERARIAS.

Cinerarias, 5 in., \$15.00 per 100. C. Whitton, City Street, Utica, N. Y.

CLEMATIS

Clematis Paniculata. Strong field-grown plants, \$15.00 per 100; strongest, \$30 per 100. Quotations on larger quantities. Est. David Fisher, Woburn, Mass.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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CYCLAMEN.

Cyclamen, 4 in., \$10.00; 5 in., \$15.00 per 100. C. Whitton, City Street, Utica, N. Y.

DAHLIAS

David Herbert & Son, Atco, N. J.
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J. K. Alexander, E. Bridgewater, Mass.
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Harlowarden Greenhouses, Greenport, New York.
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Henry A. Dreer, 714 Chestnut St., Phila.
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THE DAHLIA MANUAL.

An up-to-date work on dahlias and dahlia culture, covering the whole field. Illustrated. Price, 35c. W. W. WILMORE, Box 382, Denver, Colo.

I am again ready to handle your business. Only the cream of varieties handled. Standards and novelties, including Mrs. Winters, Mme. Dael, Navajo, Lonsdale, Dainty, Kriemhilde, etc. Catalogue of dahlias, hollyhocks, peonies and hardy plants now ready. W. W. WILMORE, Box 382, Denver, Colo.

DAISIES

Leedham Bulb Co., Santa Cruz, Cal.
Shasta Daisies.

Alexandra Daisies, 2 in., \$1.50 per 100. P. A. Baker, Media, Pa.

Daisy Queen Alexandra, nice 2-inch pot plants. A new semi-double white flowering variety. Will make handsome pot plants for spring trade. \$2.50 and \$3.00 per 100; cash. Theo. F. Beckert, Coraopolis, Pa. 9 miles west of Pittsburgh, Pa.

DECORATIVE PLANTS

A. Leutny & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

EASTER FLOWERING PLANTS

A. Schultheis, College Point, N. Y.
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Peter Henderson & Co., 35 & 37 Cortlandt St., New York.
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John Scheepers & Co., 4-6 Old Slip, N. Y.
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A. Leuthy & Co., Roslindale, Mass.
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Wm. C. Smith, 61st & Market St., Phila.
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FERNs

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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitmanii.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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P. R. Quilman, Syracuse, N. Y.
Nephrolepis Whitmanii and Elegantissima.
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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2 Bowery, New York.

FLORISTS' FERTILIZER

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.

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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.

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Decorative Evergreens.

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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburgh, Pa.

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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.

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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.

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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.

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William J. Smyth, Michigan Ave and 31st St., Chicago.

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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.

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Hilfinger Bros., Ft. Edward, N. Y.
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Syracuse Red Pots.

Syracuse Pottery Co., Syracuse, N. Y.

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GALAX

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

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Caldwell the Woodsman Decorating Co., Evergreen, Ala.

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Bronze and green galax. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

Galax leaves, leucothoe sprays, dagger and fancy ferns, green and bronze. Write F. W. Richards & Co., Banner Elk, N. C.

GERANIUMS

R. Vincent, Jr., & Son, White Marsh, Md.
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J. E. Felthousen, Schenectady, N. Y.
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Geraniums. 10 varieties 2 1/4 in., \$2.50 per 100. Wm. Doel, Pascoag, R. I.

Mme. Sallerol, 2 1/4 in., 3c. Hammer-schmidt & Clark, Medina, Ohio.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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B. Hammond Tracy, Cedar Acres, Wenham, Mass.

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Gladioli. C. Betscher, Canal Dover, O.
Gladioli, named varieties. Write for list.

E. E. Stewart, Rives Junction, Mich.

Gladiolus Augusta, 1st size, \$12.00; 2nd size, \$8.00 1000. Cash. Rowehl & Granz, Hicksville, N. Y.

Gladioli, all sizes. Stock direct from Groff. Nothing better, \$1.00 to \$5.00 per 1000. P. O. Coblenz, New Madison, Ohio.

GLASS

Boston Plate & Window Glass Co., Boston.
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Peerless Glass Repair Clamp; you need them—100 for \$1.00. A. Klokner, Wauwatosa, Wis.

GLAZING POINT

H. A. Drøer, Philadelphia, Pa.
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In writing to Advertisers kindly mention Horticulture

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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King Construction Co., N. Tonawanda, N. Y.
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GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GREENHOUSE BRACKETS

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Michigan Cut Flower Co., 38 & 40 Broad-
way, Detroit, Mich.

Fancy Ferns.
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E. A. Beaven, Evergreen, Ala.
Fadeless Sheet Moss.
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Hardy cut ferns. L. B. Brague, Hins-
dale, Mass.

Fancy Ferns, green sheet moss; leucothoe
sprays, etc. C. E. Critchell, 36 E. 3rd
St., Cincinnati, O.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Yucca Filamentosa, No. 1, 4, 1; Iris Sibir-
ica, 3c. Ellsworth Brown & Co., Sea-
brook, N. H.

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Hitchings & Co., 1170 Broadway, N. Y.
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Kroeschell Bros., 35 Erie St., Chicago.
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W. H. Lutton, West Side Av. Sta., Jersey
City, N. J.

HELIOTROPES.

Heliotropes (dark), good stock, strong and
well rooted. R. C., 60c, 100; \$5.00 per 1000.
Cash. J. P. Cannata, Mt. Freedom, N. J.

HOLLYHOCKS

Hollyhocks. Large field-grown plants.
\$3.00 per 100. Double in separate colors
of red, white, pink, yellow and maroon;
also the Allegheny strain. Send for cata-
logue of hollyhocks, dahlias and hardy
plants. W. W. WILMORE, Box 382, Den-
ver, Colo.

HONEYSUCKLES.

Golden Honeysuckles, 7c. Ellsworth
Brown & Co., Seabrook, N. H.

HORICUM

Hammond's P. & S. S. Works, Fishkill-on-
Hudson, N. Y.
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HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset,
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HYDRANGEAS.

Hydrangea paniculata grandiflora, 3 ft.,
Sc. Ellsworth Brown & Co., Seabrook,
N. H.

INSECTICIDES.

W. H. Kuld, Norwood, Mass.
Century Insecticide.
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JAPAN BULBS

R. M. Ward & Co., 12 W. Broadway, N. Y.
Seitaro Arai, Yokohama, Japan.
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Godfrey Aschmann, 1012 Ontario St., Phila.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd.,
St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13
Congress St., Chicago.
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Thos. F. Galvin, 124 Tremont St., Boston.
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W. H. Donohoe, 2 W. 29th St., New York.
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LILACS

Philadelphus, Syringa grandiflora, 3
years, strong, \$15.00 per 100. John Stamm,
Hutchinson, Kan.

NICO-FUME

Ky. Tobacco Product Co., Louisville, Ky.
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NIKOTEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.
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NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.
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John Scheepers & Co., 4-6 Old Slip, N. Y.
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The Conard & Jones Co., West Grove, Pa.
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F. W. Kelsey, 150 Broadway, New York.
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Elizabeth Nursery Co., Elizabeth, N. J.
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Cut leaf Stagbhorn sumach, large stock,
6c. to 15c.; Kudzu Vines, 15c. Edw. Teas,
Joplin, Mo.

5,000 Japan Barberry seedlings, strong,
\$10.00 per 1000. Euonymus radicans, 1 ft.
transplanted, \$4.00 per 100. Spirea Anthony
Waterer, 2 ft., \$8.00 per 100. Golden Syr-
inga, 20 in., \$8.50 per 100. B-B Nursery,
West Newton, Mass.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Carrillo & Baldwin, Secaucus, N. J.
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A. Heid, 11-19 William St., New York.
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Seibrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.

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Jos. A. Manda, 191 Valley Road, W.
Orange, N. J.

Orchids, Orchid Baskets, Peat.
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A. Leuthy & Co., Roslindale, Mass.
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Seibrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.

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PANSIES

Pansy plants; strong transplanted, \$10.00
per 1000. F. A. Baller, Bloomington, Ill.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Cottage Gardens Co., Queens, N. Y.

Peonies, fine assortment, \$10.00 per 100.
F. A. Baller, Bloomington, Ill.

Peonies, 1200 sorts. Greatest list any-
where. C. Betscher, Canal Dover, Ohio.

Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfield, West Point,
Neb.

Choice mixed single and double seedlings
from our noted collections of over three
hundred varieties, strong undivided clumps,
\$6.00 per 100. Mt. Desert Nurseries, Bar
Harbor, Me.

PETUNIAS

The Yates Floral Co., Canajoharie, N. Y.
Scranton Florists' Supply Co., Scranton,
Penn.

Double Petunia the Queen.

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Petunias, double pink and white, 2 1-4
in., 3 1-2c. Hammerschmidt & Clark, Me-
dina, Ohio.

PHALAENOPSIS.

A few fine plants of Phalaenopsis Schl-
leriana for sale, leaves ranging from 12
in. to 16 in. long. O. A. Miller, 48 Watson
Avenue, East Orange, N. J.

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PHLOXES

Twenty choice named varieties, strong field grown plants, \$4.00 per 100; \$30.00 per 1000. Mt. Desert Nurseries, Bar Harbor, Me.

Hardy phlox, best assortment, standard varieties, 2-year, field clumps, \$3.00 per 100; \$25.00 per 1000. John Stamm, Hutchinson, Kan.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y. For page see List of Advertisers.

PRIMULAS.

Primula obs. gig., 3 1-2 in., bud and bloom, 6c. Hammerschmidt & Clark, Medina, Ohio.

PRIVET

10,000 California Privet 1-year, well rooted. \$1.25 per 100; \$10.00 per 1,000. Address W. F. Allen, Salisbury, Md.

PRUNING SHEARS

Rhodes Mfg. Co., Grand Rapids, Mich.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng. For page see List of Advertisers.

ROSES

M. H. Walsh, Woods Hole, Mass. Hardy Roses, H. T. Roses and Ramblers. For page see List of Advertisers.

Bassett & Washburn, Hinsdale, Ill. Rooted Cuttings of Kaiserin, Pres. Carnot, La Detroit. For page see List of Advertisers.

Paul Niehoff, Lehigh, Pa. Rose Aurora. For page see List of Advertisers.

Robert Scott & Son, Sharon Hill, Del. Co., Pa. Grafted Roses. For page see List of Advertisers.

The Conard & Jones Co., West Grove, Pa. For page see List of Advertisers.

Bay State Nurseries, No. Abington, Mass. For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia. For page see List of Advertisers.

A. N. Pierson, Cromwell, Conn. Grafted Roses, Own-Root Beauties. For page see List of Advertisers.

Chicago Carnation Co., Joliet, Ill. For page see List of Advertisers.

Low-budded roses, No. 1, \$95.00; No. 1 1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

American Beauties, 2 1-2 in., \$8.00 per 100; \$75.00 per 1000. Chas. H. Totty, Madison, N. J.

Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1-4-in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SEEDS

T. J. Grey & Co., 32 So. Market St., Boston, Mass. For page see List of Advertisers.

Joseph Breck & Sons 51 and 52 N. Market St., Boston, Mass. For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia. "New Creations" in Bush Limas. For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y. For page see List of Advertisers.

Henry A. Dreer, Philadelphia. For page see List of Advertisers.

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James Vick's Sons, Rochester, N. Y. Aster Seed. For page see List of Advertisers.

W. W. Rawson & Co., 5 Union St., Boston. For page see List of Advertisers.

Hjalmar Hartmann & Co., 12 Stormgade, Copenhagen, Denmark. Cauliflower and Cabbage Seed. For page see List of Advertisers.

Richards Bros., 37 E. 19th St., New York. For page see List of Advertisers.

Johnson Seed Co., 217 Market St., Phila. High Grade Aster Seed. For page see List of Advertisers.

R. & J. Farquhar & Co., 6-7 So. Market St., Boston. For page see List of Advertisers.

Wm. Elliott & Sons, 201 Fulton St., N. Y. C. C. Morse & Co., 171-73 Clay St., San Francisco, Calif. For page see List of Advertisers.

I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

SHAMROCKS

R. T. McGorum, Natick, Mass.

SHEEP MANURE

Pulverized Manure Co., 31 Union Stock Yards, Chicago. Wizard Brand.

R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston. Pulverized Sheep Manure.

SHEET MOSS

E. A. Beaven, Evergreen, Ala. For page see List of Advertisers.

SHRUBS.

Japanese Wistarias, Sc.; Berberis Thunbergii, 12 to 18 in., 3 1-2-c.; Hibiscus C. Eye and Pink, 3c.; Norway Spruce, 1 1-2 to 2 1-2 ft., Sc. Ellsworth, Brown & Co., Sealbrook, N. H.

SMALL FRUIT PLANTS

Dewberry plants, Lucetia and Austin, \$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00 per 1000, \$25.00 per 5000. Turner red raspberry plants, \$6.00 per 1000, \$25.00 per 5000. W. F. Allen, Salisbury, Md.

SMILAX

Smilax seedlings, fall-sown, \$3.00 per 1000. F. A. Baller, Bloomington, Ill.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y. Spiraea, Van Houttii, 2 to 3 ft., 6c.; 18 to 24 in., 4c. Ellsworth, Brown & Co., Sealbrook, N. H.

STEAM TRAP

E. Hippard, Youngstown, O.

STOCKS

Stocks. Snowflake or Dwarf Bouquet, Benary's strain, 90 per cent. double, white, blue, red, each separate, for Easter bloom, 2-inch, \$2.00 per 100; \$15.00 per 1000; seeds cheap. Cash. Shellroad Greenhouses, Grange, Baltimore, Md.

STRAWBERRY PLANTS

Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

TOMATO PLANTS.

W. W. Edgar Co., Waverley, Mass.

TOMATO SEEDS

Wm. Sim, Cliftondale, Mass. Comet Tomato. For page see List of Advertisers.

UNLEACHED HARDWOOD ASHES

John Joynt, Lucknow, Ont., Can.

VEGETABLE PLANTS

50,000 large 4-year old Barrs Mammoth Asparagus roots, \$6.00 per 1000; \$25.00 per 5000 (500 will fill a sugar barrel.) Address W. F. Allen, Salisbury, Md.

VENTILATING APPARATUS

Lord & Burnham Co., 1133 Broadway, N. Y. For page see List of Advertisers.

Pierson U-Bar Co., 1 Madison Sq., N. Y. For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y. For page see List of Advertisers.

Weathered Co., 46-48 Marlon St., N. Y. For page see List of Advertisers.

Foley Mfg. Co., 471 W. 22nd St., Chicago. For page see List of Advertisers.

J. C. Moninger Co., 421 Hawthorne Ave., Chicago. The Chicago Lifter.

VINCAS

Vincas, variegated, 3-in., \$4.00 per 100; Vincas minor (myrtle), 3-in., \$3.00 per 100. C. F. Mahan, R. D. No. 8, Dayton, O.

Myrtle (Vincas minor). Here I am again with the biggest stock in America, \$10.00 to \$40.00 per 1000. S. J. Galloway, Eaton, Ohio.

10,000 vincas 2 1-2 in., fine, \$2.50 per 100; \$20.00 per 1000. R. Cuttings same, \$1.00 per 100; \$7.00 per 1000. Cash, please. Benj. Connell, West Grove, Pa.

VIOLETS

H. R. Carlton, Willoughby, O. Violet, Gov. Herrick. For page see List of Advertisers.

Princess of Wales Violets. Rooted cuttings, 75c. 100; 2-in. pot plants, \$2.50 Wm. Doel, Pascoag, R. I.

WILD SMILAX

E. A. Beaven, Evergreen, Ala. Southern Smilax.

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Caldwell the Woodsman Decorating Co., Evergreen, Ala. For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y. For page see List of Advertisers.

Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

Wire work, all kinds. C. E. Critchell, 36 E 3rd St., Cincinnati, O.

William E. Heilscher's Wire Works, 38 40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

Wire work. Get our special price for March. Scranton Florist Supply Co., Scranton, Pa.

WIRE SUPPORTS

The Heim Carnation Support. Write for price. Heim Carnation Support Co., Connersville, Ind.

WHOLESALE FLORISTS**Boston**

N. F. McCarthy & Co., 84 Hawley St., Boston. For page see List of Advertisers.

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.

For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

WHOLESALE FLORISTS— Continued Boston.

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- J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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- Wm. Elliott & Sons, 201 Fulton St., New York.
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AQUATIC PLANTS.

- Edward S. Schmidt, 712 12th St., N. W., Washington, D. C.
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BEGONIA BULBS: ASP. PL. SEED.

- H. F. Michell Co., Philadelphia.
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CARNATION WHITE MAID.

- John Barr, South Natick, Mass.
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EASTER PLANTS.

- Bobbink & Atkins, Rutherford, N. J.
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EASTER PLANTS.

- John McKenzie, No. Cambridge, Mass.
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- Godfrey Aschmann, Philadelphia.
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EASTER PLANTS AND FLOWERS BY TELEGRAPH.

- Samuel Murray, 1017 Broadway, Kansas City, Mo.
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HAMMOND'S COPPER SOLUTION.

- Benj. Hammond, Fishkill-on-Hudson, N. Y.
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HARDY CLIMBERS: CANNAS: ROSES, OWN ROOTS.

- Conard & Jones Co., West Grove, Pa.
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HARDY ROSES.

- J. H. Troy, New Rochelle, N. Y.
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ROSES: HARDY HYBRID PERPETUAL ENGLISH GROWN.

- R. & J. Farquhar & Co., Boston.
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HARDY ROSES: KILLARNEY ON OWN ROOTS.

- Dingee & Conard Co., West Grove, Pa.
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- M. H. Walsh, Woods Hole, Mass.
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- R. T. McGorum, Natick, Mass.
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- Holly-Castle Co., 170 Summer St., Boston.
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- Leedle Floral Co., Springfield, Ohio.
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- W. W. Rawson & Co., 5 Union St., Boston.
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- Eastern Nurseries, Jamaica Plain, Mass.
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"TOP NOTCH" GLADIOL.

- John Lewis Childs, Floral Park, N. Y.
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- King Construction Company, North Tonawanda, N. Y.
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- George C. Shaffer, 14th & I Sts., Washington, D. C.
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1000 IDEAS, A BOOKLET.

- John C. Moninger Co., Dept. H, Chicago, Ill.
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BETWEEN YOU AND ME, What do you think of the Buyers' Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

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NEWS NOTES.

A bill is before the Legislative committee on agriculture providing for the erection of a horticultural building and greenhouses for the Connecticut Agricultural College.

Chas. Plumb of Detroit, who after waiting almost a half year for permission from the common council has at last been allowed to cross the street with a steam pipe line and will now commence to add 25,000 feet of glass to his establishment.

A. Hans of Stamford, Conn., has a handsome specimen seedling fern, the result of a crossing between *Blechnum Brazilienses* and *Lomaria gibba*, made by him. The same cross had been previously made in England. This plant shows abundant spores.

On March 12 promptly at high noon auctioneer Wm. J. Elliott will lift up his voice in supplication at 201 Fulton street, New York, and the spring auction season will once more be on. Roses, nursery stock, valley clumps and other good things will be there and you get them at your own figure.

M. Maurice de Vilmorin has just published a list of certain trees and shrubs which he has to offer to public gardens and individuals in exchange. This list comprises more than 100 sorts, for the most part new and rare. All enquiries should be addressed to the Fruticetum des Barres, par Nogent sur-Verneisson, Loiret, France.

SAVE
your weekly copies of this paper.
DON'T

throw them away.
The contents are always of **PERMANENT VALUE** and you may need them for reference tomorrow, a year from tomorrow, or still later.

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Advertisements in this column one cent a word. Initials count as words. Cash with order.

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HELP WANTED.

Two good men to work in rose houses. Apply to

R. T. MCGORUM, Natick, Mass.

HORTICULTURE needs a wide-awake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

WANTED—A good designer capable of taking care of 3 small greenhouses and small garden. Of good experience; strictly sober, honest and reliable; well up in English; capable of taking telephone orders. References required. Address J. Fuller, 31 Orchard St., Leominster, Mass.

WANTED—A good, reliable nurseryman who understands the propagation of shrubs, perennials, etc., and who has had experience in landscape work. Give full particulars and state salary expected. C. R. Fish & Company, Worcester, Mass.

HELP WANTED

WANTED—A good working gardener with some experience in outdoor planting and hardy rose culture. Steady job for the right man. Address M. W., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—Gardener as assistant, competent in all branches, capable of taking entire charge. Place private. Apply stating age, wages expected, with references, Box 232, Glen Cove, Nassau Co., N. Y.

WANTED—A sober and reliable all-round man on a commercial place. Address Geo. E. Felch, Ayer, Mass., Box 455.

SITUATIONS WANTED

WANTED—Position by gardener, five years' experience as sub-foreman of Botanical Garden in Montserrat, W. I.; has general knowledge of plant life; can bud, prune, graft, etc. Willing to start at regular wages. Good Boston references. Address Fred, care HORTICULTURE.

SITUATION WANTED as superintendent and gardener on private estate. Full knowledge and experience in laying out and planting, plant houses, vegetables and fruit outside and under glass. Testimonials. Married; no children. Address S., care HORTICULTURE.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

BUSINESS CHANCES

WANTED—A partner for a good wholesale and retail florist business near Boston. Must furnish some capital and be of good character. Address L. G., care HORTICULTURE, 11 Hamilton Place, Boston.

MISCELLANEOUS

New England Lily of the Valley forcers will hear of something advantageous by addressing Jans Schmidt, care of HORTICULTURE, 11 Hamilton Place, Boston.

Wanted—Mrs. Roosevelt calla.
Wanted—You to send for my price list of hardy plants, etc. It's free. S. J. Gallo-way, Eaton, Ohio.

FOR SALE

FOR SALE

Desirable greenhouse plant, directly opposite Woodlawn Cemetery, Everett, Mass. Large and increasing demand for funeral designs, bouquets and bedding stuff. Care of lots in the Cemetery, a branch of the business. Fine dwelling house with all modern improvements, 6000 ft. of glass, 45,000 ft. of land. Paying business with open chance to increase. Sold on account of advancing years. Apply to William Christie, Woodlawn Ave., Everett, Mass., or at Horticulture office 11 Hamilton Place, Boston.

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Three florists' open wagons, three florists' top wagons and three sets of harnesses. Can be seen at 1 West 28 St., New York.

EDWARD HIGGINS.

FOR SALE—25 Cases 8x10 glass, double, \$1.35 per case.
40 Sash, 2 ft. x 7 ft., 8 x 10 glass, 70c. each. Lot of 3 x 6 Hot-bed sash.

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IRVINGTON ON HUDSON, N. Y.

FOR SALE—Greenhouse Pipe

4-in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

1000 IDEAS

are contained in that little booklet of ours and you will find it a gold mine of information. It tells in a simple, plain way all about greenhouse erecting, how to build benches, how to glaze, all about painting and just how every piece is nailed. It will show you how to have a perfect greenhouse and is worth its weight in gold to every florist who has greenhouses or ever intends to build one. There are only a few of these booklets and you should get one now—they can be used with any kind of material but if you use ours we will send you one free. Write for one today, enclosing ten cents in stamps to cover cost of mailing, postage, etc. Address,

JOHN C. MONINGER CO.
CHICAGO, Dept. H

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French and American Greenhouse Glass

Particularly in the larger widths, which are now being more generally called for. All our glass is hand blown and annealed with the greatest care.

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261 to 287 A Street

BOSTON

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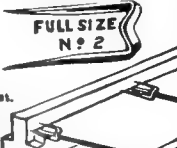
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Plant Bed Cloth protects from frost, insects, etc., and still allows free circulation of air.

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Box 9, National Union Building
Washington, D. C.

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Arctic, R. I.—Joseph H. Cushing, one house.

Albion, Mich.—A. H. Dew, range of houses.

Tusla, I. T.—T. A. Butler, range of houses.

Wilkes-Barre, Pa.—Ira G. Marvin, one house.

Stratford, Ct.—Mrs. John Morrison, enlarging.

Hartland, N. Y.—J. F. Reed & Son, one house.

Oklahoma City, Okla.—Wheeler Park, range of houses.

Additions.

Putnam, Ct.—H. E. Lincoln, extension.

Wilmette, Ill.—Wm. Feith, one house.

Strafford, Ct.—Joseph Teller, one house.

Taunton, Mass.—A. Ellery Briggs, one house, 22x75.

Kalamazoo, Mich.—G. Van Bochove & Bro., two houses, 27x300 each.

LIST OF PATENTS.

Issued February 12, 1907.

843,671. Disk Harrow Attachment. William Fetzer, Middletown, Ohio.

843,672. Disk Harrow with Tongue Truck. William Fetzer, Middletown, Ohio.

843,741. Agricultural Implement. Edward V. Fielder, Adelphia, N. J.

843,821. Lawn Mower. John P. Jasper, Cave City, Ky.

843,961. Lawn Mower. William W. McCarty, Diamond Hill.

843,994. Plow. Michael J. Breen, Rockford, Ill.

844,112. Plow. Nelson O. Flint, Walton, N. Y.

844,212. Roof Structure. Herman Thaden, Atlanta, Ga.

Issued February 19, 1907.

844,374. Fertilizer Spreader. John O. Linden, Prophetstown, Ill., assignor to International Harvester Co., a corporation of New Jersey.

844,414. Hedge Trimmer. Pehr F. Seabloom, Ormond, Fla.

844,427. Grass Catcher for Lawn-Mowers. John A. Vye, St. Paul, Minn.

844,429. Seeding Machine. Lewis E. Waterman, Rockford, Ill., assignor to Emerson Manufacturing Co., Rockford, Ill., a corporation of Illinois.

844,430. Land Roller. John Weber, Elba, N. Y.

844,601. Fruit Picker. Philip Koerber, Pikeville, Ky.

844,764. Harrow. Joseph L. Ware, St. Paul, Minn.

844,769. Knife for Lawn-Mowers. Linnaeus E. Baker, Cleveland, Ohio.

844,908. Potato Digger. John L. Albin, Kiowa, Colo.

844,912. Cultivator and Fertilizer-Distributor. George D. Bennett, Reidsville, N. C.

845,027. Pruning Implement. Joseph Bingaman, Garnett, Kans.

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144 sheets..... 3.50
288 sheets..... 6.50
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**Furnishes the
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THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

LIQUID

OVER 40% NICOTINE

**By far the
CHEAPEST.**

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Pint.....\$ 1.50
½ Gallon..... 5.50
Gallon..... 10.50
5 Gallons..... 47.25

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KIND EVERY OF WARE FLORIST

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Largest Vase Manufacturers in the U. S.
Write to Department 3 for Catalog and
Prices if Interested.

Look through the Buyers' Directory
and Ready Reference Guide. You
will find some good offers there also.

Standard Flower.. POTS

If your greenhouses are within 500 miles of
the Capitol, write us, we can save you money
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28th and M Streets, WASHINGTON, D. C.



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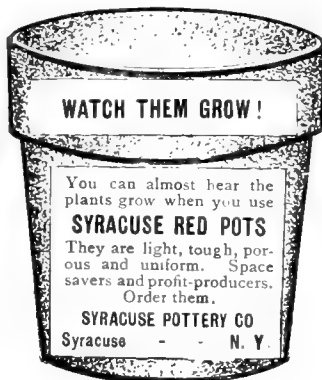
HAMMOND'S SLUG HOT WORKS, Fishkill-on-Hudson, N. Y.

Century Insecticide DEATH TO INSECTS

Cheapest and best on market. Once used, always used. Positively kills green and black fly, mealy bugs, red spider, scale, thrips or any insect on flowers, plants, trees, vegetables, etc. Will not injure scent or discolor the most delicate flowers and foliage. Also sure death to Gypsy and Tussock Moths. Especially adapted for Roses, Carnations, Chrysanthemums, Heliotropes, Smilax and Ferns. Handled by Leading Seedsmen. \$2.25 per can of 5 Gallons. Also sold in barrels of 25 and 50 gallons.

Prepared by **W. H. KULD,**

NORWOOD, MASS.



STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2½ " " "	5.25	60 8 " " "	3.00
1500 3½ " " "	6.00	HAND MADE	
1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
800 3½ " " "	5.80	48 10 " " "	4.80
500 4 " " "	4.50	24 11 " " "	3.60
320 5 " " "	4.51	24 12 " " "	4.80
144 6 " " "	3.16	12 14 " " "	4.80
		6 16 " " "	4.50

Seed pans, same price as pots. Send for price list of
Cylinders for Cut flowers, Hanging Baskets, Lawn
Vases, etc. Ten per cent. off for cash with order. Address
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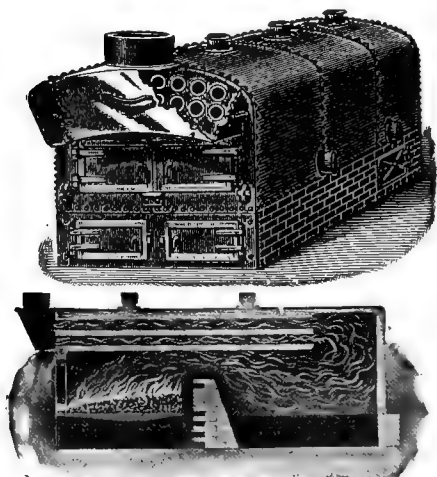
ANNOUNCEMENT

The King Construction Company of North Tonawanda, N. Y. and Toronto, Ont., in response to numerous inquiries by mail states that the trussed roof greenhouses which collapsed at Mr. Farenwald's place near Philadelphia were not of the King Construction design or construction. Moreover a number of King houses in the same neighborhood passed through the same weather conditions without any damage whatever. Also the King Construction Company has just received an order for two trussed roof greenhouses each 500 feet long and 28 feet wide which are to be built for Mr. Victor Groshens on his place which is only a couple of blocks from Mr. Farenwald's place. Owing to having introduced the trussed method of greenhouse construction and to having been identified with it so long, the King Construction Company finds it necessary to make this announcement as a matter of self protection.

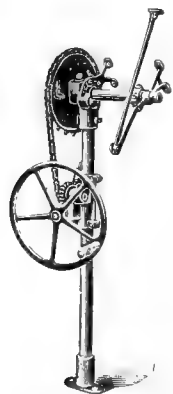
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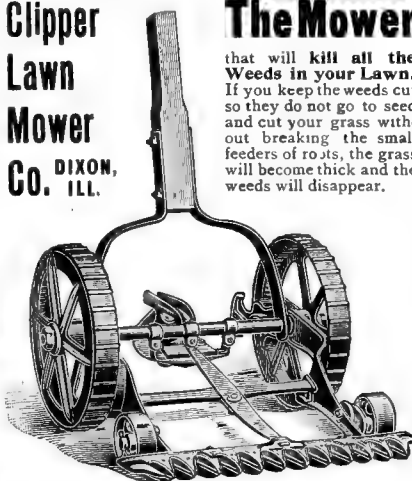
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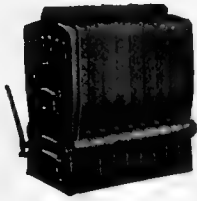
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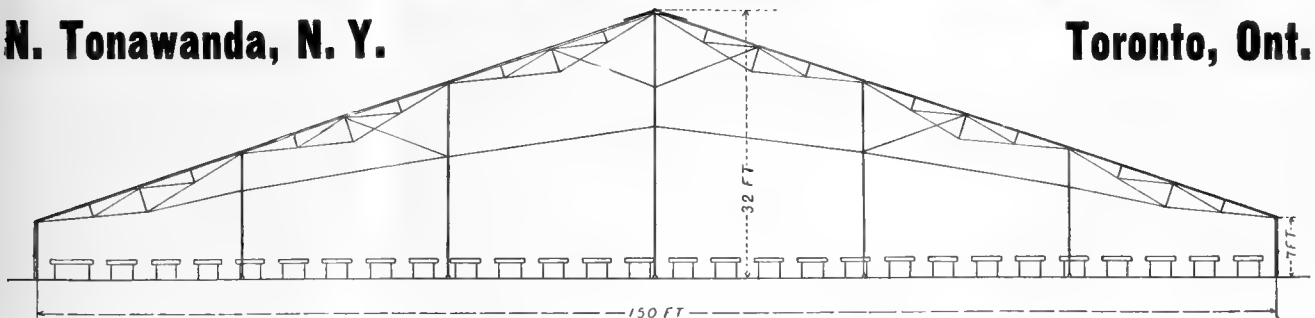
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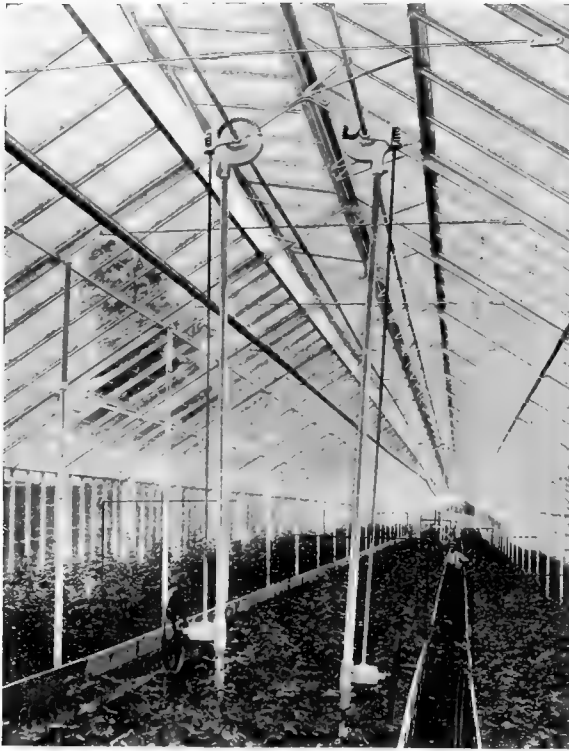
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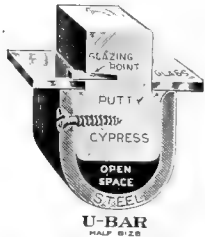
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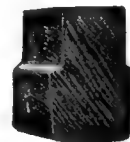


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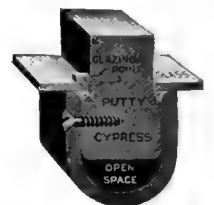
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HORTICULTURE

Vol. V.

MARCH 16, 1907

No. 11



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Introduced in this Respect.

HAS PROVED THE MOST
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A Night Temperature of
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Suits it Admirably.

Prices

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" 2500, \$95.00 per 1000 In lots of 20,000 or more, cash with order \$75.00 per 1000

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PETER FISHER (Originator)
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Save you pinks from splitting by using the
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easily applied and removed, lasts forever,
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\$1.75 per 100
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250 at 1000 rates.

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Crimson Ramblers
Daisies

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(Lady Gay, Dorothy Perkins)
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Prices, (f.o.b. New York): 10 to 12 inch heads, \$6.00 per doz., \$45.00 per 100; 12 to 14 inch heads, \$7.00 per doz., \$55.00 per 100; 14 to 16 inch heads, \$10.00 per doz., \$75.00 per 100.

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FINEST BULBS, NURSERY STOCK, PALMS
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4000 Azaleas for Easter

ALL COLORS
Prices from
50c to \$5

Also LILIES, GENISTAS, HYDRANGEAS, SPIRÆAS, BOUGAINVILLEAS, and LILACS. All Elegant Stock. Order Now.

John McKenzie, - North Cambridge, Mass.

THIS IS THE LAST CHANCE TO SEND IN YOUR ADVERTISEMENT FOR
The Easter Number

WE GO TO PRESS MARCH 21.

Abnormal Boston Ferns from Spores

Herewith are photographs of Boston ferns raised from spores from *N. Piersonii*. I have two plants that have been selected from a batch of seedlings, being the only ones affected. They are in their first year and first fronds; the two last growing ones are two and a half feet long by eight inches broad and are not fully developed. The two plants are of very strong and broad constitution and quite different from the other new varieties.

The photographs do not show the details of the fronds well. No. 1 has the leaflets flat while No. 2 has them more curled. Until the present time they have shown no signs of a tendency to revert to type; they are making their runners and bud growth; what the young plants will be cannot yet tell.

If anybody else has already raised some from spores it would be interesting to compare notes; as a fact generally plants raised by spores from *N. Piersonii* turn out to be common Boston ferns, and I would not be surprised if these were the first abnormal Boston ferns raised from spores. Without proof to the contrary I presume that all the American decomposite bi- and tri-pinnate forms of *Nephrolepis exaltata* which descend from *Piersonii* have been raised as that variety was, from bud sports. The runners that bear buds grow from the base of the fronds and it may be logical to say that runners growing from the base of abnormal well-characterized fronds will produce better character-



ized plants than those growing from the base of normal or partly affected fronds and from the first ones sports are liable to occur.

There is a doubt as to whether *Nephrolepis elegantissima Whitmanii* and the others will bear sports; they may be barren, but should they accidentally do so by seeding and with careful selection among the progeny, there will doubtless be found some plants that will be more vigorous and certainly will be a further departure in the direction of new strains of diverse and constant forms of the Boston fern.

A. M. D. Ham

Culture of the Amaryllis

(CONCLUDED.)

From six to seven weeks is the usual time required to bring the amaryllis into flower, when in a dormant state. These yearling plants can hardly be expected to be had in flower in good form as early as Christmas, but any time from the first of February onward they will flower as readily and as satisfactorily as the narcissus or hyacinth (providing they did not loaf in their growing time). Such treatment as is given to other bulbous flowering plants where successfully grown, is all the amaryllis requires. Many amaryllises flower before their leaves appear, which is somewhat detractive. Now, here is something worth remembering. When the plants are brought out of their resting places, to start in to growth, if a five-inch pot with a hole an inch in diameter is placed over the top of the bulb until the new leaves reach to the hole, and then removed, the leaves will continue to grow and by the time the plant is in flower the leaves will be nearly fully developed. [When we grew hyacinths this pot covering was never omitted.]

Clear off all old leaves and see that each pot is thor-

oughly watered before starting into growth. Any bulbs that are apparently too small to flower should be kept dormant until planting time when they may be treated the same as the young plants or they may be plunged out in pots, lifted last of August, rested and prepared to flower at Christmas. Amaryllises are as easily retarded in cold storage as any other bulb.

The general way of propagating, hitherto, has been by sowing the seed as soon as ripe and carrying them along in pots until they flower, sometimes three years, and often longer; or by offsets from mature bulbs, and in some instances the old bulbs are subjected to the same treatment as are hyacinths for the increasing of any particular variety. These plans are undoubtedly safe ones but they are slow and expensive. As to details of treatment—those acquainted with ordinary greenhouse culture will have it at their finger ends.

John Thorpe

HORTICULTURE

VOL. V

MARCH 16, 1907

NO. 11

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 05

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times) 5 per cent.; three months (12 times) 10 per cent.;
 six months (26 times) 20 per cent.; one year (52 times) 30 per cent.
 Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass.
 under the Act of Congress of March 3, 1879.

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EASTER NUMBER NEXT WEEK.

Fighting the moths The passage of the appropriation of \$150,000 by Congress towards the work of checking the spread of the gypsy moth will be hailed with satisfaction by all those who know anything of the circumstances. It is estimated that during the past twelve months over \$750,000 has been expended by the state and citizens of Massachusetts in the struggle against the dreaded pest and so it is likely to be for some years to come. New

England, and New York, which is likely to be the next state attacked, have always, with good reason, taken great pride in the magnificent trees which adorn their villages and it is a dreadful calamity which now menaces them. Let every one do all in his power to help win the fight.

Effects of the winter

There are indications of serious injury to rhododendrons and other broad-leaved evergreens by the severe winter which they have had to endure and the final outcome, which cannot be determined for several weeks yet, is anxiously awaited. For unrelenting, boisterous inclemency the winter of 1906-1907 will long be remembered as unparalleled in the experience of most people, at least in the northern and eastern section of the United States. The effect of such weather on all hardy garden material is dependent in a great measure, however, upon fall conditions of sap flow and ripening of wood and it may yet transpire that Nature took a hand last fall in preparing her family for the ordeal which was in store for them. In most sections there has been a good covering of snow during the period of lowest temperatures and that is something for which we should all be deeply grateful.

A discredited practice

Has the newspaper reporter been around yet to get pointers regarding the Easter prospects? If not, you may look for him any day now. A word of advice—*don't* fill him up with stories of scarcity and predictions of high prices. Too much of this has been done every year and no one can tell what the direct loss to the flower business has been from this senseless, almost suicidal habit which so many florists have contracted. Tell the inquirer that there will be no difficulty in supplying him with all he requires for his Easter flower gifts at reasonable prices. Fill the newspaper reporter with the enthusiasm of an approaching floral holiday such as has never before been seen; convince him that there will be good lilies and an abundance of them and that nobody need forego the pleasure of the possession or the giving of a flower because of scarcity or high prices. Don't frighten away your best friends with that discredited old bugaboo of Easter famine.

Get in line

Civic associations and periodicals are doing good service in the dissemination of literature aiming to educate the public taste and inspire a better appreciation of plants, trees and flowers about city and suburban homes. The effect is seen in the tidying up of yards, the more general planting of flowers, and a willingness to expend money for public parks and playgrounds. In all this the horticultural profession is a direct beneficiary and, as such, apart from his equal participation in the general benefit, it would seem very becoming, as well as expedient, that the florist and gardener should take an active part in any movement tending so much to his own advantage as this horticultural educational work certainly does. Our older florists' clubs, those well and permanently established, might now do well to take a respite from their time-worn discussions of commonplace trifles of daily practice on which most of their members are already sufficiently informed, and rise to the consideration of themes and activities which will draw within their influence, and secure the interested support of, the most intelligent and progressive element in the craft.

Dendrobium thyrsiflorum

(See Frontispiece.)

The position of first place among orchid species is claimed, by many orchidists, for some favorite and it is usually the case that their choice is determined by the degree of success attained in bringing that particular species up to a high state of cultural perfection. Of course it is impossible to determine what orchid is the best or most useful, as that depends entirely upon the use made of it, but I believe I will have many ardent supporters in the statement that, for conservatory decoration at least, a well grown specimen of *D. thyrsiflorum*, such as the accompanying illustration shows, stands very near the head of the list. This plant was raised by the writer at the Missouri Botanical Garden, and will go far to show that the specimens raised in botanical gardens are not as microscopical as is usually supposed.

D. thyrsiflorum is seldom seen in large specimens, as they are often neglected before attaining large size. The species grows with considerable ease and if a few cardinal points are borne in mind, success will be attained. *D. thyrsiflorum* is a Burmese orchid and requires extreme heat during the growing season. It is not a deciduous dendrobium and although it should have a very decided resting period, yet it should not be allowed to lose all of its leaves. A good rule to follow is, to allow it to drop all of the leaves made prior to the current year's growth. When the eyes begin to swell, water should be given in gradually increasing quantities, applied, not at the roots, but by briskly syringing the dry canes to help the flower buds break through.

One of the peculiar features about the culture of this orchid is that the same number of blooms are not produced each year. It is usually the case that after a year of heavy flower production, there will be a short crop, and so on in alternate years. This is because some flower spikes are produced from wood three years old, and in a heavy crop all the latent buds produce flowers, hence the short crop in the succeeding year.

The hot summers of this country, and particularly in St. Louis, make ideal conditions for all hot house orchids, such as dendrobiums, phalaenopsis, catasetums, etc., while, on the other hand the beautiful cool orchids, such as odontoglossums, masdevallias, and other little gems are usually short lived, and it is for this reason that so few of this class are to be found in the extensive collection of orchids of the Missouri Botanical Garden, which numbers about one thousand species and varieties among which are some unique specimens. It is often the case that the tiny and little known orchids lay claim to being the most beautiful.

George E. McClure

The Apple Orchard

After the trees become dormant it is an excellent plan to utilize some of the spare time that falls to the lot of all in agricultural lines during the winter to put the orchard into shape.

In pruning old trees that are bearing fairly good crops but have never been cut before, it is not advisable to remove large limbs, sacrifice much wood, or inaugurate some great change of policy. In trees of this kind winter pruning will consist in a judicious thinning of the thick portions by cutting out branches which cross

or those which bear little fruiting wood,—fruit spurs,—and in opening up the head to admit air and sunshine.

There is always a tendency to cut off too much wood below and not enough at the top of the tree, so that in time it becomes too high, the fruit being borne up in the topmost branches, difficult to spray and hard to pick. Old dead branches must be removed. The best cut for these and for large branches is one made parallel to the remaining limb or the trunk—depending on what is cut off—sawing through the “shoulder” at the base of the branch. This exposes a larger surface than a cut made at right angles to the branch, but it will heal over much more rapidly. Above all do not leave a stub projecting, for this in decaying will leave one of the finest spots for blight infection possible.

On many of the trunks and large branches rough, uneven, broken-down patches are often found. I refer to the familiar canker spots, caused by a fungus (*Sphæropsis malorum*), which also causes the black rot of the fruit. When found these should be cut out, going back to solid wood and thoroughly scraping off the bark. All cuts of one-half inch or more in diameter and all places where canker has been removed should be painted with some good lead paint to guard against infection.

Where much fruit rot, leaf spot, or scab abounds, raking up and burying or burning the dead leaves and old fruit will lessen the damage done by these troubles.

A very important part of the work is the examination for the various scales, especially the San Jose, which has been so aptly termed a “mighty atom.” The scale is only about the size of a pin head, but breeds with such amazing rapidity that in a few months it will completely cover a full grown tree and by sucking the sap eventually kill it. A single scale is circular in outline with a mound in the centre, brown or gray in color and rather hard to distinguish. The insect itself is under this scale and winters over in nearly a mature state. Where many occur they give to the infested parts a whitish, scurfy, crusted appearance. When a tree is badly covered a bonfire is the most satisfactory remedy, but when only a few exist there is hope of saving by spraying with lime-sulphur wash or, in the case of a small orchard, with some one of several good preparations on the market.

Sunken areas of bark, little piles of sawdust and woodpecker holes on the trunks and large branches will indicate the presence of borers, the young of certain beetles. These spots should be cleared away and the borers killed by inserting a flexible wire into the burrows. Prevention consists in giving the trees a good coating of whitewash or soft soap for a distance of five or six feet from the ground. Borers indicate that the tree is unhealthy, for they do not occur in vigorous, rapidly growing, healthy wood.

The oyster-shell (*Mytilapis pomorum*) and the scurfy scale (*Chionaspis furfurus*) are cleaned off in the same way as the San Jose scale. Summer treatment is also possible against them, as all the young occur at about the same time, differing in this respect from the San Jose, which breeds all summer.

It is the intelligent man who will keep in touch with his orchard, help nature in the subjugation of undesirable forms, and exercise care and judgment in the management of the trees. Bearing trees are like old people, after they have become used to a certain way of living, any violent changes work sad havoc in the order of their existence. Keep the trees growing steadily and they will repay with good crops.

R. S. Adams.

AMERICAN ROSE SOCIETY

Annual Meeting and Exhibition at Washington, D. C.

Chicago Chosen as the Next Meeting Place

Officers Elected

PRESIDENT—Robert Simpson, Clifton N. J.; **VICE-PRESIDENT**—Philip Breitmeyer, Detroit, Mich.; **TREASURER**—Harry O. May, Summit, N. J.; **SECRETARY**—Benj. Hammond, Fishkill-on-Hudson, N. Y.
EXECUTIVE COMMITTEE—P. Welch, Boston, Mass.; E. G. Hill, Richmond, Ind.; August Poehlmann, Chicago, Ill.

The combined exhibitions of the American Rose Society and the Florists' Club of Washington, D. C., opened in Light Infantry Hall, Washington, on Wednesday, March 13.

ANNUAL MEETING.

The annual meeting of the American Rose Society convened at eight o'clock p. m., on Wednesday, in the Light Infantry Hall. President Robert Simpson assumed the chair and read his address.

PRESIDENT'S ADDRESS.

Ladies and Gentlemen:—Fellow members of the American Rose Society, we meet today in the capital city of our country as guests of the Washington Florists' Club. Many of us are growers, and I am sure that all of us are lovers of the rose. Some of you have come to Washington to place on exhibition your beautiful flowers, some of you have come chiefly it may be to admire the wonderful productions of others, but a goodly number of you I trust are here to discuss with us problems in rose growing and problems that confront our rose society. In any event I am sure that no one will say that mercenary motives have drawn you, some from the East, some from the West, some from the South, and others from the North, at considerable expense of time and money at this busy season of the year to attend this meeting; it is to gratify your love for the beautiful in nature, and to signify your willingness to do your part towards making this earth more beautiful and attractive that you are here today. I trust that our meeting may be helpful and encouraging to every grower of the rose, that we all as a result may have higher ideals, and go home more than ever in love with our business and calling and that this shall prove to be an epoch making meeting of the Rose Society.

At the 1906 meeting in Boston the matter of selecting the place in which to hold the exhibition and annual meeting of 1907, was left in the hands of the Executive Committee, after a discussion however which showed plainly that the sentiment of the meeting was in favor of going to some city in the west, should the way be open for us, and should such a course seem to be for the best interests of the Society. The executive committee left

the matter open until July thus giving every section of the country an equal chance to compete for the privilege of having the Rose Exhibition. The Society did not receive any invitation from the west; but it did have a very hearty and pressing invitation from the Washington Florists' Club, which sent their president to New York to back up their formal written invitation.

The president, Mr. Bisset, assured us that Washington and its people would see that the local detail work of the exhibition was taken care of properly and that an exhibition there would be a success financially. Whether they have kept their promise you will see for yourselves.

There is a great amount of detail work to be done in arranging for an exhibition of this kind, particularly when it is not held in connection with some regularly organized horticultural society where men have been trained for the work, and where all the facilities for the holding of exhibitions are at hand; more perhaps than many of you realize and I wish at this time to express my appreciation of the hearty enthusiasm with which the officers and local members of the executive committee have entered into this work, and have done willingly and gladly, what ever was in their power to do. Several meetings have been held in the city of New York, and some of the officers have not failed to attend a single meeting. If the exhibition of 1907 shall prove to be equal in point of interest and enthusiasm to that of 1906, much of the credit is due to the push and energy and painstaking work of our secretary and the enthusiasm of our young treasurer. The position of secretary of the American Rose Society is no sinecure I assure you if the incumbent tries to do faithfully the work that he finds to do, and just in proportion to the quality of the man in office will depend how much of the work shall be done, or how much shall be left undone. For good work the salary is totally inadequate, but in the present state of our treasury I dare not ask for an increase. The work of our present secretary during the past nine months will meet with your entire approval, I am sure.

As the program for this meeting indicates we have arranged for the reading of papers on interesting subjects

by men eminently qualified to talk on the subjects treated and I trust we may give to them our undivided attention during the delivery of the same, and in the discussion that shall follow, we may be able to give out and gather in a vast store of useful information.

The society is to be congratulated on the personnel of its essayists. It has been arranged that gentlemen of large experience and observation shall start a discussion on matters of vital interest to the society; that of increased membership, and new work that may be done by the society as an organization for its members and the public. I do not wish to anticipate or forestall what these gentlemen may advise, as I hope for a very full discussion when in the order of business these subjects are taken up; however in this connection I may be permitted perhaps to make a few observations, and possibly offer a few suggestions.

Much good work might be done by the society if we had at command funds with which to do the work; much work should be done that has as yet not been even attempted. For instance a committee of half a dozen men representing different sections of the country and competent to deal with the peculiar climate and other conditions of that particular section, might in conjunction with the secretary prepare a list of roses with general cultural directions suitable to the conditions prevailing in those various sections that would be worth much more to rose lovers than the annual membership fee. This committee could also advise as to the best roses to purchase, Dutch, French, English, home grown budded, or own root plants, department store stock, or stock direct from nursery. There is a vast amount of ignorance amongst the general public along these lines, and their ignorance is frequently taken advantage of by unscrupulous dealers.

What the society can offer its prospective members as an inducement to membership will no doubt be a controlling factor in seeking to enlarge that membership, on the other hand larger resources as a result of larger membership will permit the society to undertake greater things.

If the American Rose Society should identify itself with the various horticultural societies of the country to the

extent of offering its silver medal once a year for collections of cut roses, roses in pots, etc., to be judged according to the scale of the Rose Society, it would add much interest to the exhibitions and our society would gather strength and prestige thereby.

If the financial resources of the society were adequate I would favor the holding of an exhibition in June, as well as March, so that the rose loving public could see and become acquainted with the beautiful out door roses that we cannot place before them in March, such as Frau Karl Druschki, Baroness Rothschild, Mrs. John Laing, etc. The June exhibition would be more popular, more interesting and do more to educate the masses in rose culture than it is possible to do with an exhibition of indoor roses in March.

If the catalogue men of the country, we have some of the gentlemen here today, could be induced to give a page of their catalogue each year to a statement of the aims and purposes of the Rose Society and advocate membership in it to their customers, great possibilities would immediately loom up before the society.

It is reasonable to suppose that our membership could be multiplied several times within a year if all present would resolve to make a point to interest their friends and business acquaintances by correspondence, by personal appeal or in any other legitimate way that presented itself.

The Society offers gold and silver medals at its exhibitions for new varieties, the object in offering these being to encourage the production of novelties of sterling merit, but in ruling that a novelty must score at least 95 points to win the gold medal we practically make it impossible to win it at all.

Very few judges would be willing to say that a flower was perfect in form, in color, in fragrance or distinctiveness or in fact in any one particular, yet a variety with as many good points as Liberty or Killarney or Richmond, should have a chance to win the gold medal of the society. We should of course maintain a high standard in the giving of such awards, but we should at the same time avoid exacting impossible conditions. I ask you to consider whether or not the rule governing the judging of novelties needs to be revised.

At the 1906 meeting you will remember that much time was taken up discussing the desirability and practicability of establishing a permanent fund of considerable size for the uses of the society; all agreed that it was desirable, but the meeting could not agree on any particular plan of action. We have today in America many men so enriched with this world's goods that their chief concern in life is to find the best way to spend this vast accumulation of wealth, that it may accomplish the greatest amount of good for the largest number of people.

Art, education, science, religion, humanitarianism, have each received their millions to aid in prosecuting the work of blessing mankind along their particular lines. It is a good thing to pay out \$100,000 for a fine painting and present it to a museum of art where it can be seen and admired, and furnish inspiration to thousands of people. It is noble to endow our institutions of learning so that our youth may have the privileges of higher education. It

is still better to provide the means for caring for the sick, the suffering, the aged and the homeless, but it is a question if in establishing a fund of ample proportions out of which this society might disseminate information and furnish the inspiration which would result in the beautifying of hundreds of thousands of homes all over our land, and bringing joy and brightness into the hearts and lives of still larger numbers of our people, the man of means would not be choosing the very best way, from an artistic, educational, humanitarian, or sociological point of view, of investing the wealth which a kind Providence has placed in his hands and made him the steward and custodian. I am sufficiently optimistic to think that if a committee composed of the right men should take hold of this matter and present it properly to men of large means and philanthropic tendencies, a fund could be established, permanent in character, the income of which only could be used by the society.

Gentlemen, it rests with you to take such action on this and other matters as your combined wisdom may consider best.

I trust your stay in the city of Washington may be both pleasant and profitable.

Secretary Hammond's report followed.

SECRETARY'S REPORT.

Reviewing the work of the American Rose Society since the last annual meeting, held at Boston, March 27, 28 and 29, 1906, the secretary feels as if there was much interest scattered far and wide in this society. Our present membership extends from Bellingham in Northwestern Washington to Schlesian, Germany. We have lost in all five life members by death, E. G. Asmuc, E. M. Wood, H. Dale, George Fancourt and J. L. Dillon, these last two within the past year, and each of these men were active rose-growers; two new life members were added to our list, S. S. Pennock and Robert Simpson, which leaves 43 active. The annual membership who have paid up their dues for this year number 91, divided as 85 actual and 6 associate members. This division of associate members seems as if it may bring into touch with this society an extended number of people interested in local societies.

We have Dr. Spencer S. Sullinger, President of the Rosarians of Bellingham, Wash., and Rev. J. R. Lawrence of Massachusetts. Both of these men are clergymen alike interested in creating in their locality a taste for civic improvement. From Germany comes Dr. G. Molwes with the hand of fellowship to those who in America have to do with roses. With this line of members what can the society do to interest and attach more of the same sort? One thing is a full and comprehensive report of the proceedings.

As a new man at this work I have found there is a lot of detail to keep in touch with our membership and to get a revenue sufficient to cover cost of the necessary postage, printing, and clerical work to systematically carry it on. It calls for an actual annual expenditure of more than the society can well afford, unless there is some financial support more than the present limited number of annual dues.

This American Rose Society can

bring itself before the general public in no more effective manner than by a liberal offering of its medals gold, silver or bronze, as prizes to be awarded for some tangible work, by the various local societies. To illustrate, in 1901 and 1903, this society gave as a prize to the Annandale Annual Rose Show a silver medal. I am assured that this medal was very much appreciated, and an application was made by Miss Caroline Cruger, the secretary at Barrytown, N. Y., for this consideration again. The Executive Committee then directed that a medal should be offered. Now if this is a matter of interest to one local society, it would be so to many, if we can extend our usefulness in this line. The gentlemen who were active in the formation of this society certainly did a lot of good work to give the society a start. Our die for these medals is in storage at the Philadelphia Mint, and the design is a very pretty thing.

The past year, by the advice and consent of the executive committee, I had made a design for this society and placed thereon these words "A Rose for every home, A Bush for every garden" and this device marks all our stationery distinctively.

This year we printed one thousand schedules in pamphlet form and mailed one to each member and the balance were sent out as advertisements, so to speak, of the Rose Society; a few hundred were mailed to growers all about the country; the Annual Report was likewise treated.

Last September I was in Chicago for several days and attended a meeting of the Cook County Horticultural Society, and was introduced with genuine cordiality as Secretary of the American Rose Society, upon which occasion the opportunity presented itself, and I put before that gathering the aims and doings of the American Rose Society. We have as one of our judges in attendance at this exhibition Mr. Hauswirth, who has come to our society without cost or hope of reward in common with our friends, William Kasting, of Buffalo, and Robert Craig, the first President of the Rose Society.

The Chicago Florist Club sends to the American Rose Society an invitation to fix the place of its next meeting in that city. Your executive committee has held six formal meetings during the past 12 months, members coming on to New York from Washington, Boston, Hillside, Pa., So. Orange, Clifton, Summit, N. J., Tarrytown and Fishkill-on-Hudson, N. Y., to attend. This interest shown by the committee was echoed back by the rose growers who are here today in force, but to our knowledge if the sunlight had been up to normal the past two months this exhibition large as it is, fine as it is, would have been more than double.

There are two questions on our programme, suggested by President Simpson, that are of imperative interest and which will be before the meeting tomorrow, and these questions, friends, are topics which your secretary, for the future prosperity of the American Rose Society, commends to your individual attention.

Treasurer May then presented his report showing a cash balance of \$324.94. The reports were received with warm applause. Theodore Wirth, Supt. of Parks, Minneapolis, Minn., was

VICTORY HAS MADE GOOD

Place your orders early for rooted cuttings. Prices \$6 per 100, \$50.00 per 1000. DISCOUNT FOR CASH WITH ORDER

GUTTMAN & WEBER

The Wholesale Florist and Grower
of New York
Lynbrook, L. I., N. Y.
43 W. 28 St.,

then introduced and read a paper on "Outdoor Rose Culture."

A cordial vote of thanks was tendered Mr. Wirth for his eminently practical, truthful address, which was full of wise suggestions.

The selection of the meeting place for 1908 was then considered and Chicago was chosen.

Election of officers resulted as follows: Robert Simpson re-elected for president; Philip Breitmeyer, vice-president; Benj. Hammond, secretary; H. O. May, treasurer; P. Welch, E. G. Hill and August Poehlmann, executive board.

The exhibition was excellent. The roses were superb in quality, Richmond especially so.

Secretary Wilson of the Department of Agriculture opened the exhibition at six o'clock with a most eloquent address expressing his deep appreciation of the work of the florists and rose growers and extending the good wishes of his department.

Many exhibits came in late and judging was delayed.

The judges were Chas. McCauley, Geo. C. Shaffer, G. C. Watson.

The awards of the Florists Club of Washington were as follows:

Hyacinths, three pans, 10 bulbs of one variety in each, F. H. Kramer; single pan, 10 bulbs of one variety, 1st and 2d, F. H. Kramer. Lily of the valley, six pots, S. C. Briggs. Fern grown in a dwelling at least four months previous to exhibition, Nellie Baxter, 1st and 2d. Hybrid geranium, S. C. Briggs.

100 blooms carnations one variety, with foliage, H. Weber & Sons Co., 25 blooms dark pink, 1st, P. B. H. Widener; 2d, H. Weber & Sons Co.; 3d, S. C. Briggs. Crimson, 1st, P. B. H. Widener; 2d, Washington Florist Co. Light pink, 1st, H. Weber & Sons Co.; 2d, S. C. Briggs. Scarlet, 1st, P. B. H. Widener; 2d, Guttman & Weber. White, 1st, H. Weber & Sons Co.; 2d, P. B. H. Widener. White variegated, 1st, P. B. H. Widener; 2d, H. Weber & Sons Co. Six or more blooms seedling shown for first time, 1st, H. Weber & Sons Co.; 2d, W. A. Manda. Pansies, 48 blooms, S. C. Briggs. Violets, double, other than Lady Hume Campbell, Theo. Dietrich; Princess of Wales, 1st, D. Bisset; 2d, F. G. Mense. Any other single variety, Theo. Dietrich. Orchids, Lager & Hurrell.

Awards by American Rose Society:

Division A. Twenty-five blooms, Bride, Stephen Mortenson, 1st; Bridesmaid, L. B. Coddington, 1st; G. E. Campbell 2nd; Mrs. Pierpont Morgan and Mrs. Oliver Ames, J. N. May, 1st; Golden Gate and Ivory, F. H. Kramer, 1st; Mrs. Abel Chateau and Uncle John, Robt. Simpson, 1st; Liberty, Edw. Towill, 1st, also 1st with Joseph Hill on any other disseminated variety; Killarney, W. H. Elliott, 1st; Richmond, S. Mortenson, 1st; G. E. Campbell, 2nd.

Division B. Twelve blooms, Liberty, E. Towill, 1st; any other named disseminated variety, Washington Florists Co. with Cardinal, 1st; Bride, Bridesmaid, Golden Gate, Ivory, Richmond, F. H. Kramer, 2d.

In Division C. open to private gardeners and amateurs, S. C. Briggs was the only winner in five classes.

The Lord & Burnham Co. trophy was won for the second time by George Burton; the Dorrance trophy went to Robt. Simpson, as did also the Traendly & Schenck cup for 50 blooms Mrs. Abel Chateau, the Dingee-Conard Co. and E. G. Hill Co. prizes for 50 blooms Killarney and Richmond respectively, the F. R.

Newbold cup for Killarney and the L. M. Noe special for Uncle John.

The G. H. Cooke cup for 100 blooms, Richmond and J. H. Taylor cup for 50 blooms Wellesley went to W. H. Elliott.

The H. F. Michell Co. cup for 50 Richmond, to Jos. Towill.

The Elliott prize to A. Farenwald, Pennock-Meehan Co. cup for 50 Bridesmaids, to L. B. Coddington; Hammond prize for 25 Ivory, to F. H. Kramer, who also took the Burpee cup for 50 blooms Golden Gate.

The May cup for American seedling not yet introduced, went to E. G. Hill Co., for Rhea Reid; the Coddington prize for 25 Brides to S. Mortenson; the Briggs prize for 6 blooms of new rose never exhibited, to W. S. Clark.

Meyers & Samtman, Philadelphia, and John Cook, Baltimore, showed promising pink seedling roses. F. H. Kramer, Washington, had handsome groups of Baby Rambler and Queen Beatrice. F. R. Pierson Co. made a magnificent showing of carnation Winsor.

All the carnations kept poorly, possibly on account of the sudden warm wave.

The Simpson Cup for Rambler roses in pots was won by M. H. Walsh, who also took the cup for General Display of Roses in pots and prize for Specimen Climber in pot.

Welch Bros. prize for Vase of Roses most artistically arranged went to Robt. Simpson.

The session on Wednesday afternoon was one of the best ever in the history of the society. The paper read by E. G. Hill on "The Hybridization of Roses, the Ideals and the Means used to work up to them," was followed by a long and interesting discussion.

M. H. Walsh's paper on "Climbing and Trailing Roses in the Hardy Rose Garden" drew out an equally instructive debate. A full report will appear in next week's issue.

A vote was passed recommending to the executive committee that certificates may be awarded to new varieties scoring as high as 80 points.

On Thursday afternoon President Roosevelt received the Rose Society visitors at the White House and the members generally took advantage of the opportunity to grasp the hand of the president.

The visitors were entertained at a banquet in the Arlington Hotel on Thursday evening.

BANQUET TO S. A. F. EXECUTIVE BOARD AT PHILADELPHIA.

The officers and directors of the Society of American Florists met in Philadelphia on March 11th and 12th and mapped out a program for the August convention. Much important work was accomplished and a new stride forward for the old society is a sure result. Horticultural Hall was selected for the exhibition and the Broad Street Theatre for the meeting. The convention will last five days instead of four as usual. David Rust was selected as superintendent of exhibition. A full report of the proceedings will be given out in due course by the secretary, Mr. Hauswirth. Mr. Stewart showed him-

self an ideal presiding officer and put business through in good shape.

Incidental to the Executive meeting was a banquet tendered to them by the Florist's Club of Philadelphia at Horticultural Hall on Tuesday evening. Samuel S. Pennock, president of the club, presided, and was ably assisted by Robert Craig as toast master. William J. Stewart responded for the national society in his usual happy style, and made the members present put their thinking caps on. John Westcott, the vice-president, had a welcome word and the glad hand. Without Mr. Westcott, Philadelphia would not be Philadelphia. Among the other speakers were Secretary Phil. J. Hauswirth, Frank H. Traendly, Peter Crowe, W. F. Kasting, J. C. Vaughan, E. V. Hallock, W. K. Harris, Theodore Wirth, Colonel Castle and others. The hits of the evening were the speeches of Stewart, Castle and Farquhar. The latter was particularly forceful and electrified the members with the width, breadth and depth of his views in prophesying the future of our national society. Edward J. Dooner, P. J. Lynch, A. M. Campbell and Thos. Hogan contributed to the tuneful and sentimental end of the program with much acceptance.

G. C. W.

PITTSBURGH AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The club meeting on March 5 was not as well attended as usual on account of the furious blizzard which kept many away to look after their glass. However the members present decided it was more interesting and home-like than some of our larger meetings. Mr. Falconer reported that there was too great a rush of business and prosperity in the east and Easter was too close at hand for him to secure one of the large eastern growers to address the club, as was intended. He did his best, however, and with his running fire of comment and notes on the various exhibits as they came up, the eastern expert was not much missed.

A. R. Peacock, Thos. Jenkinson gardener, showed a choice begonia Lorraine which at blooming time had been cut back and was now again a mass of bloom; also fine primulas from the Sutton strain of seed; Western Penitentiary, W. James gardener, showed cinerarias; Pittsburgh Florists' Exchange, J. Bader, Blind Bros., S. J. Wolfe and G. M. Laughlin, H. S. Price gardener, had fine collections; Phipps Conservatories, two specimen Harrisii lilies, one between five and six feet high, tulips, Dutch Roman hyacinths. Maxfield & Dimond, Warren, R. I., had a box of their artificial calyxes on exhibition. They seem to be a sure preventive of split carnations.

The April meeting has for its subject "Roses and Bulbous Plants and Flowers."

H. P. JOSLIN, Secretary.

NEW HAVEN HORTICULTURAL SOCIETY.

A meeting of the society was held in their hall on March 5. The feature of the evening was a paper on the *Harrisii* lily, and the subject was thoroughly discussed afterward. Owing to so much disease among the lilies many of the growers have stopped raising them. They also entered a protest against the cutting down of the bulbs from 6 to 7 to 5 to 6 and being obliged to pay the same price. One member stated that he would not get 50 per cent. of what he planted to bloom. The officers elected for the following year are: Wm. Ferrier, president; Hubert Grove, vice-president; David Kydd, treasurer; Walter Keolla, secretary. The treasurer's report showed that the society was in a flourishing condition. Their next exhibition is to be held in Music Hall on the 6th, 7th and 8th of November.

NEW BEDFORD HORTICULTURAL SOCIETY.

At the monthly meeting of this society, March 11, the members enjoyed an interesting discussion on the subject of the house culture of bulbs, which was led by Wm. F. Turner with an account of his experience as an amateur. He also had upon exhibition a fine pan of Roman hyacinths.

Thomas Gray of Boston also took part in the discussion.

The entertainment committee submitted an excellent program for the ensuing year embracing discussions upon bulbs and hardy and herbaceous plants. Outside speakers and specialists upon the various subjects will be engaged when possible.

In the monthly exhibition of plants and flowers the cyclamens were in evidence. Wm. Keith showed two vases of cut flowers; James Garthley showed two fine specimen plants.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

At the next regular club meeting on March 19, F. E. Palmer will open a discussion on carnations in which a number of specialists will take part. Exhibits will be made of most of the current season's novelties. Arrangements for the coming banquet will be made.

A field day will be held with W. W. Edgar Co., Waverley, on Saturday, March 23. Members and friends are invited to take electric cars leaving Park Street Subway Station at 1.30 p. m. for Waverley.

W. N. CRAIG, Sec'y.

PASADENA GARDENERS' ASSOCIATION.

The regular meeting of the association was held on March 1 in the G. A. R. hall. "Horticulture" was the subject, which was ably treated by several speakers, among them Secretary Coolidge of the Board of Trade, who commended the society for the step they had taken towards promoting horticulture and floriculture in this section.

The spring flower show will be held in April, and members are making great preparations for it.

SALVIA ZURICH

THE EVERBLOOMING SALVIA

One of the most important novelties in bedding plants introduced for a long time, produces its wealth of flowers while very small and is in its full glory long before any other kind shows even a bud, grows also much dwarfer and more compact.

Our stock is raised from cuttings and seed, which was procured in Zurich (Switzerland).

Strong Plants from 21-2 in. Pots 75c per doz., \$5.00 per 100, \$45.00 per 1000

For full description send for circular or see Horticulture pages 140 and 202, American Florist's Carnation Number page 19, and Florist's Exchange page 185.

PERENNIAL GARDENS CO., TOLEDO, O.

SPECIMEN SHRUBBERY.

We have a surplus of the following varieties in extra heavy stock. If you are looking for something to give you immediate effects, now is your chance to get it at a reasonable cost.

NAME	SIZE	PRICE
<i>Berberis Thunbergii</i> ,	2 1-2 ft. bushy,	\$20.00 per 100
<i>Deutzia Pride of Rochester</i> ,	4-5 " "	15.00 " "
" <i>gracilis grandiflora discolor</i> ,	3 " "	20.00 " "
" <i>rosea</i> ,	3 " "	20.00 " "
" <i>venusta</i> ,	3 " "	20.00 " "
" <i>campanulata</i> ,	3 " "	20.00 " "
" <i>Lemoine</i> ,	3 " "	15.00 " "
<i>Hydrangea paniculata</i> ,	3-4 " "	20.00 " "
<i>Ilex crenata</i> (Japan Holly),	3-4 " "	100.00 " "

COTTAGE GARDENS CO., Queens, L. I., N. Y.

10,000 AMERICAN ARBORVITAE

(*Thuja Occidentalis*)

Each tree grows wide apart and splendidly developed on all sides. So bushy that for hedges or screens they will go almost twice as far apart as ordinary Arborvitae will. They have been frequently transplanted and are supplied with an abundance of fine fibrous roots. Can be dug and shipped with ball if desired.

	per 19	per 100
3-4 ft. size.....	\$6.00	\$50.00
4-5 ft. size.....	7.50	60.00

Prices for dealers only. Packing additional at cost. 25 or more at the rate per 100.

Send to us for Ornamental Nursery Stock of all Kinds.

THE WM. H. MOON CO., Morrisville, Pa.

ROSA FRAU KARL DRUSCHKI

FINEST NEW WHITE HYBRID ROSE

We have a fine stock of this. Mail order today.
Send for our Rose Card.

EASTERN NURSERIES

M. M. DAWSON, Manager

Jamaica Plain, Mass.

WHOLESOME CHESTNUTS.

Only two weeks until Easter but there is a good deal of hard work to be done in two weeks, all the harder perhaps because of a certain amount of uncertainty up to the last day.

In many places lilies will not be in for Easter in anything like the numbers needed. Forcing must be resorted to with some intensity to bring plants with promising probabilities into bloom. A night temperature of 70 degrees will not be any too high from now on. More than ordinary care in watering will, when high temperatures are maintained, be absolutely necessary; neglect in watering will without fail work irreparable injury.

Tulips and hyacinths in good shape in pans will find ready purchasers. Azaleas are always Easter favorites. Plants showing any sign of being too far advanced should be placed in as cool a house as circumstances and other conditions permit. Azaleas in bloom are very easily put out of commission if they in the slightest degree suffer for want of water.

Spireas should cause no trouble to get and keep them in the desired condition for Easter, but it must be remembered that customers always prefer things at their best, oblivious of the fact that such a condition in many things marks the turning point leading to a rapid process of deterioration.

Do not put off too long the search for material needed for the Easter trade. Last year, although in point of uncertainty in no way like this year, there were many serious disappointments caused by over confidence and too long delay in placing orders.

STATEMENT OF PLANT IMPORTS.

There were entered at the port of New York from February 19 to March 11, 1907, the following plants, etc.:

From Holland—H. F. Darrow, 32 cs. plants, 12 bales garden seed; W. Elliott & Sons, 19 cs. plants; McHutchison & Co., 53 cs. plants; P. Ouwerkerk, 91 cs. trees; C. B. Richard & Co., 1 cs. plants, 5 cs. trees; Stumpp & Walter, 2 cs. bulbous roots; J. M. Thorburn & Co., 6 bales garden seed; Vaughan's Seed Store, 7 cs. bulbs, 43 cases roots; sundry forwarders, 148 cs. plants, 56 cs. trees, 2 cs. bulbs, 31 cs. bulbous roots, 10 bales garden seed.

From Belgium—McHutchison & Co., 2 cs. plants; Vaughan's Seed Store, 2 cs. bulbs; sundry forwarders, 20 cs. plants, 142 tubs laurel trees.

Via Liverpool—H. F. Darrow, 1 cs. trees; McHutchison & Co., 10 cs. plants.

Via Southampton—McHutchison & Co., 16 cs. plants.

From Glasgow—Aug. Rolker & Sons, 1 crate trees.

From France—C. C. Abel & Co., 36 cs. plants; C. B. Richard & Co., 13 cs. do.; Aug. Rolker & Sons, 21 cs. do.; general order, 332 cs. do.; sundry forwarders, 108 cs. do., 28 cs. trees.

From Germany—T. E. Anderson & Co., 6 cs. roots; Julius Roehrs & Co., 8 cs. plants; Stumpp & Walter, 8 cs. seed; J. M. Thorburn & Co., 7 pkgs. seed, 14 cs. lily of the valley pips; Vaughan's Seed Store, 1 cs. seed.

You'll find something worth reading on every page of this paper.



Spiraea Gladstone, large bushy plants, 6 and 7 inch pots, 50c., 75c., 1.00 each.

Spiraea superba, 6 inch, 25c. to 35c. each.

Cineraria hybrida, 6 inch pots, all shades, 3.00, 4.00, 5.00 per dozen.

Hydrangea Otaksa, 6 and 7 inch pots, 50c., 75c., 1.00 each.

Crimson Rambler, Roses, 6 inch pots, 3 ft. high and over, 1.00, 1.25, 1.50, 2.00 each.

Hyacinths, all shades, 4 inch pots, 12c.

Tournefort Tulips, 3 plants in a 4 inch pot, 12.00 per 100 pots; 1.80 per dozen.

Double Von Sion Daffodils, 3 plants in a 5½-6 inch pot, 2.50 per dozen pots.

EASTER PLANTS

An immense stock now ready at the well-known establishment of

GODFREY ASCHMANN, Philadelphia.

Azalea indica our specialty, three houses full, selected personally by myself on my annual business trip in Belgium last fall.

Mme. Van der Cruyssen, the best double pink azalea in existence. Have 3000 of them, all as round as an apple, just covered with buds. Other varieties as, Niobe, Bernard Andrea alba and Deutsche perle (double white), Empress of India, Prof. Wolters, Verveaneana (double variegated), Simon Mardner, and about eight more best varieties, price 75c., 1.00, 1.25, 1.50, 1.75, 2.00 each. Have a limited amount of 50c. and 60c. size, such as Apollo (dark red), Simon Mardner, etc., (no Van der Cruyssen).

Lilium multiflorum, 6 inch pots, were never so nice as this year. Price, 12c. per bud for plants with 4 buds or less; plants with 5 buds and above, 10c. per bud.

Araucaria excelsa, 6 inch pots, 6, 7 and 8 tiers, 1.00, 1.25, 1.50 each.

A. excelsa glauca, 6 inch pots, 5 and 6 tiers, 1.00, 1.25, 1.50 each.

A. compacta robusta, 7 inch pots, 30-35 inches high, very fine, 2.00 to 3.00 each.

Specimen glauca, 7 inch pots, 3.00 each.

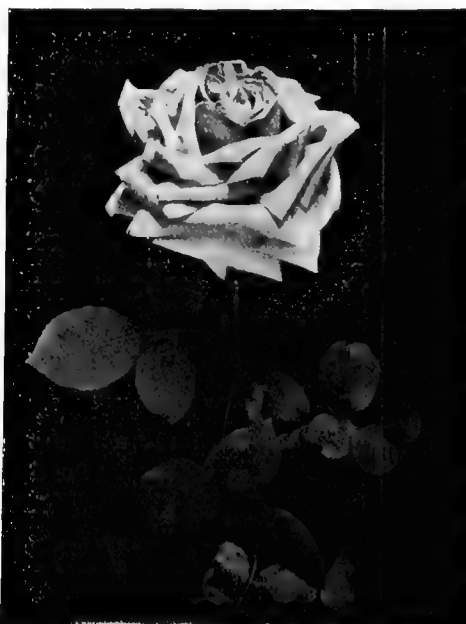
Please mention if pots are wanted. Cash with order please. All goods must travel at purchaser's risk.

GODFREY ASCHMANN, 1012 Ontario Street, Philadelphia, Pa.
Wholesale Grower and Importer of Pot Plants.

Read This Testimonial

AND BUY YOUR ROSES
DIRECT FROM MR. TROY

The silver cup of the Nassau County Horticultural Society was won by Mr. Forbes.



JERICHO, N. Y.
MR. J. H. TROY,
Mount Hissarik Nurseries,
New Rochelle, N. Y.

Dear Sir: The consignment of roses received from you last Spring was the most satisfactory I have ever handled. Out of 2,600 plants only ten were lost. That I succeeded in winning the Silver Cup of the Nassau County Horticultural Society for the best collection of hardy out-door roses, November 1st, 1906, speaks volumes for the excellent quality of plants you furnish.

Yours truly,
L. G. FORBES
Gardener to R. J. Preston, Esq.
January 30th, 1907.

J. H. TROY
Mt. Hissarik Nurseries
NEW ROCHELLE, N. Y.

NEW YORK OFFICE: 24 E. 34th ST.

MAKE A GORGEOUS DISPLAY

I have the finest lot of trained **Easter Ramblers** in the country and am now booking orders for their delivery at proper time. **Crimson Ramblers** in bush form, \$2 to \$3 each. Baskets, \$2.50 to \$12. Chairs, \$8 to \$12. Crowns, \$5 to \$15. Crosses, Pyramids, Umbrella, Automobile, Bicycle, etc. at corresponding prices. **Dorothy Perkins Ramblers** in similar styles; also **Lady Gay Ramblers**, \$3 to \$5 each. **Baby Ramblers**, \$6 to \$9 per doz.

AZALEAS, ERICAS, GENISTAS

On these specialties I have no superior. **Azaleas** are superb this year and the proportion of the popular but scarce pyramidal form is large. Quotation by dozen or hundred lots. We have the **Firefly** and **Chas. Enke** in quantity. **Ericas**, **Persoluta Alba**, **Cupressina**, **Cavendishii** and **Translucens**, are splendid and every up-to-date florist should have them. **Hydrangeas**, **Oranges**, **Tulips**, **Boronias**, **Gardenias**, **Cyclamens**, **Daisies** and a host of other desirable things. Write for prices.

ANTON SCHULTHEIS, College Point, New York

NOW!

Last chance to get your advertisement in the

EASTER NUMBER

We go to press on March 21. "No season for calm, familiar talk."

HURRY UP!

Wholesale Trade List.

Plants from 2½ in. pots, 50c. per doz. \$3.00 per 100

Asparagus plumosus, **Heliotrope**, **Fuchsias**, **Salvia Bonifera**, **Coleus Verschaffeltii** and **Golden Bedder** and fancy varieties, **Variegated Periwinkle**, **Ageratum Blue Perfection**, **Moon Vine** (white, the true variety) **Ipomea Heavenly Blue**, **Acalypha**, **Clematis paniculata**, **Parlor Ivy**, **Lobelia**.

Seedlings from flats at \$1.00 per 100

Asparagus Sprengeri, **Smilax**, **Ageratum Blue Perfection**, **Petunia Howard's Star** and **Rosy Morn**, **Marguerite Carnations**, **Stokesia**, **Verbenas**, **Alyssum** new dwarf.

Plants from 3 in. pots at \$4.00 per 100

Geraniums best varieties, **rose**, **apple** and **nutmeg scented**, **Fuchsias**, **Heliotrope**.

C. EISELE,

11th & Roy Streets,
PHILADELPHIA, PA.

... Established 40 Years ...
ROSE HILL NURSERIES
NEW ROCHELLE, N. Y.
Most Complete Horticultural Establishment in America
SIEBRECHT & SON
New York Office: Siebrecht Building, 425 Fifth Avenue

NEW DOUBLE PETUNIA THE QUEEN

a wonderful bloomer; flowers from four to four and one-half inches in diameter; white mingled with purple, nicely fringed; an early bloomer; fine seller for Decoration Day; planted outdoors will bloom all summer. Strong plants, ready Feb. 15, \$1.50 per doz.; \$10.00 per 100; \$90.00 per 1000.

THE YATES FLORAL CO.
Joseph Traudt, Prop. Canajoharie, N. Y.
Scranton Florist Supply Co.
SCRANTON, PA.

ROSES.

101 best sorts. Own roots. 2½-in. and 4 in. Get our price list. Send your want list.

THE **LEEDLE FLORAL COMPANY**
SPRINGFIELD, OHIO.

SAVE

your weekly copies of this paper.

DON'T

throw them away.

The contents are always of **PERMANENT VALUE** and you may need them for reference tomorrow, a year from tomorrow, or still later.

WHITMANI 2 1-4 inch, \$10 per 100 BOSTONS 2 1-4 inch, \$3.00 per 100

H. H. BARROWS & SON Whitman, Mass.

ASPARAGUS

Plumosus, Robustus and Sprengeri

Three inch stock ready for fours. Send ten cents for samples and prices.

ALBERT M. HERR, Lancaster, Pa.

GOVERNOR HERRICK THE NEW VIOLET

Originated and introduced by
H. R. CARLTON, Willoughby, O.
We have the following stock in the finest condition to plant and now is the time to plant:

¾ inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000
4 " 2.50 " " 12 " 100 " 75 " 1000

It will pay you. Try it. Order at once.

ORCHIDS

Arrived in exceptionally fine condition the following
ORCHIDS: LAELIA PURPURATA, CATTLEYA HARRISONIAE, C. INTERMEDIA, C. TRIANAE, C. LEOPOLDII and many more.

Write for Prices

LAGER & HURRELL, SUMMIT, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

Sander, St. Albans, England
and 235 Broadway, Room 1
NEW YORK CITY

—ORCHIDS—

Some of the varieties we shall import this spring:
Cattleyas, Trianae, Labiata, Mossiae, Mendellii, Speciosissima, Giga., Schroederæ, Dendrobiums, Nobile, Wardi num, Phalaenopsis, Vandas, Cereulea, Kimballiana, Oncidium Vancosum, Laelia Anceps, Autumnalis, Albida. Write for prices on above.

CARRILLO & BALDWIN, SECAUCUS, N. J.

ORCHIDS Importations, 1907

Save money and get our quotations on **Cattleya labiata, Trianae, Percivaliana, Mossiae, Mendellii, Schroederæ.**

JULIUS ROEHR'S CO.
Largest Orchid growers and importers in U. S.
RUTHERFORD, N. J.

Orchids for Spring Delivery

Cattleyas, Laelias, Oncidiums, etc.
Write for price list. Finest quality of Peat and Moss and Orchid Baskets on the market.

Give me a trial order.
Joseph A. Manda
191 Valley Road, West Orange, N. J.

ORCHIDS Direct from the Collectors For Spring and Summer Delivery

We are giving quotations upon our entire list of South American, Philippine and East Indian Orchids. Choicest varieties of **Cattleyas, Odontoglossums, Pilmuna, Cyrtopodum, Phalaenopsis, Dendrobiums** and **Vandas**. Among them the very rare **Vanda Sanderiana** for delivery June or July.
A. HELD, 11-19 William St., New York

Seed Trade

There has been the usual and expected reaction in prices of some varieties of "Canners Peas," notably Alaskas. Two months ago this variety sold readily at \$4.00, but now an offer of \$3.00 will not be refused by anyone having them to sell. Admirals have also declined in price, but a good sample will bring \$3.40, while Advancers, Horsefords and Surprise are firm at \$4.00 for the two former sorts, and \$4.50 for the latter.

New York State farmers are offering Stowell's Evergreen Corn at low prices—under \$1.00. Three years ago they were scoring \$5.00, and would not contract to grow under \$3.00. How very foolish a little prosperity will make some people. This brings to mind the many complaints which seed growers and canners are making of the troubles they are having in getting farmers to contract to grow their crops. Each year marks an advance in the prices paid the farmer, but the seed grower finds it difficult to convince the seed merchant of this fact, and still more difficult to get the advance which he has to pay the farmer. The California seed growers, realizing that they command the situation, have advanced their prices to a point where they can make a reasonable profit. When the grower gets a reasonable profit it means the farmer is getting a living price for his crops; this in turn enables him to buy such seeds as he wants of the retail seedsman at a fair price and thus the grower, the jobber, and the retailer are all benefited. Prosperity for the farmer means prosperity for all, therefore he should always receive a price for his crops that will mean a fair return for his labor, and this also enables him to spend the necessary time and expense in caring for his crops, which means finally better samples and quality.

Josiah Young, Troy, N. Y., has moved into his new store, 375 River street, which is one of the finest seed and flower establishments in the state.

CATALOGUES RECEIVED.

Bowker Insecticide Company, Boston.—Disparene testimonials.

Schaum & Van Tol, Boskoop, Holland.—Wholesale list of ornamental shrubs, peonies, etc.

Monmouth Nursery, J. T. Lovett, Little Silver, N. J.—Trade price list of nursery stock, roots, etc.

Arthur De Meyer, Mont-St.-Armand, Ghent, Belgium.—Illustrated catalogue of nursery stock, azaleas, Kentias, begonias, etc.

W. W. Wilmore, Denver, Colo.—Spring catalogue of dahlias, hardy plants, shrubs, vines, etc. Typographically a credit to the printer. Lists of varieties very complete.

Ross Bros. Co., Worcester, Mass.—Annual catalogue of seeds and farm and garden supplies. Well illustrated and contains a large novelty list in flower and vegetable seeds, dahlias, etc.

PLANT STAKES.

We have a very large stock of all kinds (wire and wood). Order now for staking up Easter Plants.

GREEN PAINTED TAPERING PLANT STAKES.

	Per doz.	Per 100		Per doz.	Per 100
1½ feet.....	\$0.14	\$0.90	3 feet.....	\$0.46	\$2.90
2 ".....	.24	1.55	3½ ".....	.57	3.60
2½ ".....	.35	2.20	4 ".....	.68	4.35
			5 ".....	.80	5.10

GREEN PAINTED HEAVY OR DAHLIA STAKES.

	Per doz.	Per 100		Per doz.	Per 100
3 feet.....	\$0.68	\$4.40	5 feet.....	\$1.15	\$7.40
3½ ".....	.80	5.17	6 ".....	1.40	8.90
4 ".....	.95	5.90			

HYACINTH STAKES (Wood) Dyed Green.

	Per 100	Per 1000
12 inch.....	\$0.15	\$0.85
18 inch.....	.20	1.25

CANES STAKES.

	100	500	1000
Southern. Very long, selected quality.....	\$0.75	\$3.00	\$6.00
Japanese. Very thin, about 6 feet long.....	.75	3.00	5.50

UNPAINTED STAKES OR DOWELS (Wood).

	100	1000		100	1000
36 in. long, 3-16 in. diameter.....	\$0.60	\$4.50	42 in. long, 3-16 in. diameter.....	\$0.65	\$5.50
36 " " 5-16 " ".....	.55	4.60	42 " " ½ " ".....	.60	5.50
36 " " ¾ " ".....	.80	6.75	42 " " 5-16 " ".....	.65	5.50
36 " " ¾ " ".....	.60	4.75	42 " " ¾ " ".....	.65	5.50
36 " " ¾ " ".....	.60	4.25	42 " " ¾ " ".....	.95	8.75

We can supply these dowels dyed green, 50c. per 1000 additional.

GALVANIZED WIRE STAKES.

No. 10 Wire.						No. 8 Wire.					
	Per 100	Per 1000		Per 100	Per 1000		Per 100	Per 1000		Per 100	Per 1000
2 ft. long..	\$0.45	\$4.08	4 ft. long..	\$0.83	\$8.16	2 ft. long..	\$0.55	\$5.25	4 ft. long..	\$1.10	\$10.00
2½ " " ..	.55	5.11	4½ " " ..	1.00	9.20	2½ " " ..	.70	6.50	4½ " " ..	1.25	11.50
3 " " ..	.65	6.15	5 " " ..	1.12	10.23	3 " " ..	.80	7.50	5 " " ..	1.40	13.00
3½ " " ..	.78	7.18	6 " " ..	1.30	12.25	3½ " " ..	.95	9.00	6 " " ..	1.60	15.50
6½ " " ..			6½ " " ..	1.40	13.28	3½ " " ..			6 " " ..		
Raffia. For tying, natural color, 15c. per lb., 10 lbs., \$1.25. \$11.00 per 100 lbs.											

Raffia. For tying, natural color, 15c. per lb., 10 lbs., \$1.25. \$11.00 per 100 lbs.

SEND FOR OUR FLORISTS' WHolesale PRICE LIST.

HENRY F. MICHELL CO., 1018 Market St., Philadelphia.

PUBLICATIONS RECEIVED.

The Dahlia Manual. A Treatise on Dahlia Culture, Illustrated. By W. W. Wilmore, Denver, Colo. This useful pamphlet presents the experience of an intelligent and observant grower for a period of twenty-five years. It tells all that is necessary to know to raise dahlias successfully. Price 35 cents.

W. W. Rawson & Co., Boston, are sending out as free literature Rawson's Practical Guide to Vegetable Growing and Rawson's Guide for Flowers. Accompanying each, respectively are complete planting tables for vegetables and flowers which will be found very useful for reference, especially by the amateur garden maker.

We have received from Sander & Sons, St. Albans, England, the "Addenda to Sander's List of Hybrid Orchids, 1905 to 1907." The new tables record the crosses raised and registered since the publication of the Orchid Hybrid List. These tables will prove of great value to hybridizers, helping them to avoid duplication. They represent a vast amount of careful work, yet the price is only 1 shilling, post free.

The school board of Marlboro, Mass., have established an industrial association which includes gardening.

A PROPOSITION WORTH CONSIDERING.

HORTICULTURE IS STRONGEST in the most progressive and most intellectual horticultural communities. Advertise in HORTICULTURE. There's an inducement.

MOVEMENTS OF GARDENERS.

H. E. George, who has for the past year been with Theo. Payne, has taken a position with Chas. Winsel, 251 South Main St., Los Angeles, Cal.

Donald McNaughton for the past two years with W. N. Craig, North Easton, Mass., has been appointed head gardener to Franklin H. Beebe, Falmouth, Mass. Mr. McNaughton was previously at Skibo Castle, Andrew Carnegie's residence in Scotland.

BUSINESS CHANGES.

Mrs. L. A. Cox, successor to Geo. M. Leadley, Detroit, Mich., has removed to 233 Woodward Ave. The new store is handsomely fitted up.

GLADIOLI

Beautifully illustrated catalog, colored plate, etc., describing Groff's Hybrids, Named Novelties of rare beauty, Mixtures and Collections to color and fine Mixtures of all colors. Write for it.

ARTHUR COWEE

Gladiolus Specialist
MEADOWVALE FARM, BERLIN, N. Y.

GLADIOLI

Let us help you grow them.
Leaflet free.

B. HAMMOND TRACY
CEDAR ACRES, WENHAM, MASS.



JOHNSON'S HIGH GRADE LILY OF THE VALLEY PIPS

ARE THE FINEST OFFERED TO THE TRADE

	Per 100	Per 1000	Per case 2500 pips
Selected Hamburg, for forcing,	1.25	11.00	25.00
Selected Berlin, unsurpassed in quality,	1.50	12.00	23.00

JAPANESE LILIES

	Each	Doz.	Per 100
Auratum, 8 to 9 inches,	\$0 10	\$0 75	\$5 00
Speciosum Album, 8 to 9 inches,	10	1 00	7 00
" Rubrum, 8 to 9 inches,	10	85	5 75
" Melpomene, 8 to 9 inches,	10	1 00	6 75

Johnson Seed Co., 217 Market Street, PHILADELPHIA, PA.

Herbert W. Johnson, of the late firm of Johnson & Stokes, President.

Thorburn's Seeds

... OUR ...

Wholesale Catalogue

for florists and market gardeners is now ready and will be sent free to all who ask for it.

NEW CROP flower seeds are mostly all on hand now and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.

Cold Storage Lily of the Valley Pips. Best possible grade, 1000 in case @ \$12.00 per 1000.

J. M. THORBURN & CO.

33 Barclay St., through to 38 Park Place
NEW YORK

BRIDGEMAN'S SEED WAREHOUSE

RICKARDS BROS.

Props.

37 East 19th St., NEW YORK CITY

In Cold Storage For Prompt Shipment

LILY OF VALLEY SPIRAEA

Floribunda Japonica Lilliums
Auratum Album Rubrum and Roseum

Joseph Breck & Sons Corp.

47-54 NO. MARKET ST., BOSTON, MASS

RAWSON'S HIGH GRADE SEEDS

for the most critical

GARDENER, FARMER
or FLORIST

Catalogues mailed free

W. W. RAWSON & CO.
5 Union St., BOSTON, MASS.



Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a large supply of exceptionally fine quality.

For the Lawn,

The Greenhouse,

For the Herbaceous Garden,

For the Flower Garden,

For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;

500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,

6 and 7 So. Market St., BOSTON.

W. & D. SPECIALTIES for FORCING

Mignonette, "New York Market." Sweet Peas, "True," Christmas Flowering, (pink and white). Tomato, "The Don," "Stirling Castle." Mushroom Spawm, "English" and "Pure Culture." Send for 1907 Catalogue.

Weeber & Don, Seed Merchants & Growers
114 Chambers St., New York

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY & CO.

32 & 33 So. Market St., BOSTON

C. C. MORSE & CO.

171-173 Clay St., SAN FRANCISCO, CAL.

The Largest Seed Growers
on the Pacific Coast

150,000 CANNAS

TRUE TO NAME

All with two to three good eyes
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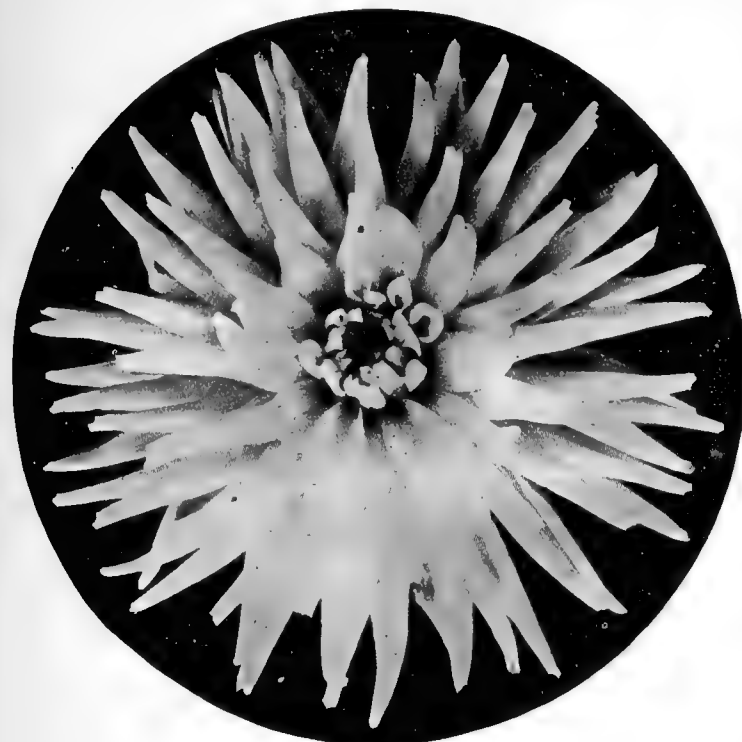
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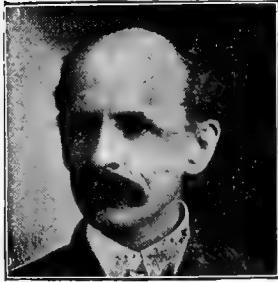
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and 9 Chapman Place,

See our Greens Advertisement on page 351.

L. D. Telephone, Main 2618.

ST. LOUIS HORTICULTURAL SOCIETY.

The first spring flower show ever held in St. Louis was given by this society, and opened on Tuesday afternoon in the banquet hall of Masonic Temple. The hall was beautifully decorated with plants, cut flowers and handsomely arranged booths. Especially noticeable were the booths of Fred C. Weber, C. Young & Sons Co., St. Louis Seed Co., and the Koenig Floral Co. The dinner table arranged by Theo. Miller attracted much attention from the society ladies, and was the only display of this kind.

Among the visitors were Leonard Kill, W. C. Washburn, M. Barker of Chicago; A. F. Longren and J. D. Thompson, Joliet, Ill.; G. A. Kuhl, Pekin, Ill.; A. R. Knowles, Bloomington, Ill.; Mrs. Canfield, A. C. Brown, Springfield; J. S. Wilson, Western Springs. A spread in a near-by cafe was tendered them on Wednesday afternoon and was an enjoyable feature. On Tuesday and Thursday evenings D. M. Hazlett gave stereopticon views of the society's aims. On Wednesday evening the annual meeting was held and officers were elected as follows: President, Edward Mallinckrodt; vice-president, L. Mathews; secretary, F. C. Weber; treasurer, O. G. Koenig. Messrs. R. Tesson, Alex. Waldbart and A. Meyer were the judges and the list of awards was as follows:

Collection of plants in bloom, Wm. Schray & Sons, 1st; G. B. & R. J. Windler, 2d; Koenig Floral Co., 3d. Collections of bulbous plants in bloom, F. C. Weber, 1st; W. Schray & Sons, 2d; G. B. & R. J. Windler, 3d. Fifty foliage and blooming plants, C. Young & Sons Co., 1st; W. Schray & Sons, 2d; C. C. Sanders, 3d. Specimen plant, W. Schray & Sons, 1st; Koenig Floral Co., 2d; C. C. Sanders, 3d. Specimen blooming plant, A. Jablonsky, 1st; F. C. Weber, 2d. Six blooming lilies, C. Young & Sons Co., 1st; A. Jablonsky, 2d; F. H. Mein-

hardt, 3d; all Longiflorums, Lily of valley, H. N. Bruns, Chicago, 1st; W. Schray & Sons, 2d. Display of pansies, R. J. Windler, 1st; C. C. Sanders, 2d. Violets, W. Schray & Sons, 1st; F. C. Weber, 2d; Wm. Winter, 3d.

In carnations the Chicago Carnation Co. took first in five varieties, with White Perfection, Red Riding Hood, Aristocrat, J. A. Valentine and Enchantress; first in white with White Perfection, with J. Steidle, 2d; 1st in light pink with Enchantress, J. D. Thompson Carnation Co., 2d; 1st in dark pink, with Aristocrat, J. D. Thompson Carnation Co. 2d. In red J. D. Thompson Carnation Co. was 1st with Robert Craig, A. Jablonsky, 2d. in variegated, J. D. Thompson Carnation Co. 1st with Mrs. Patten; A. Jablonsky, 2d. Any other color, A. Jablonsky, 1st with Harlowarden, J. Steidle, 2d.

In roses, Peter Reinberg, Chicago, took first in all but the American Beauty class, when W. J. & M. S. Vesey captured the first, with F. C. Weber second. In the other classes W. J. & M. S. Vesey were a close second.

For floral baskets, Theo. Miller took first; for vase of flowers arranged for effect, F. C. Weber first with Richmond roses.

The E. G. Hill Co., Richmond, Ind., displayed their red rose, Rhea Reed.

The society are already making arrangements for a fall exhibition.

DETROIT FLORISTS' CLUB.

At the meeting on March 6 a very interesting paper on carnations was read by Wm. Stahlein. Mr. Stahlein is well able to handle the subject for his elegant blooms speak well for his methods. He has two very promising seedlings.

Mr. Pautke of Grosse Pointe showed blooms of a new carnation of Enchantress color, 4 to 5 inches in diameter, with very long, stiff stem. It shows distinct qualities among the many carnation children.

OBITUARY.

William Griffin.

William Griffin, for years a member of the firm of Griffin Brothers, florists, of Frankford, Pa., died March 7 at his home, No. 4915 Willow street, after a long illness. He was 58 years old and had lived in Frankford all his life. He retired from active business some time ago and spent several months in Europe in search of health. He was a member of the School Board of the Twenty-third section and a vestryman of St. Mark's P. E. church. He was buried with Masonic honors from St. Mark's church. A widow survives him.

Other Deaths.

I. M. Brainard, aged 79, died at Gouverneur, N. Y., February 26.

Mrs. E. E. Street, the pioneer florist of Booneville, Miss., died on February 26.

S. C. Hulbert, superintendent of Fairmount cemetery, Newark, N. J., died February 28, aged 66.

James B. Ennis, a native of Ireland, died on February 24, at Bloomington, Ill., in his seventy-sixth year.

Frank Yahnke, a familiar figure at farmers' institutes, died at Winona, Minn., February 27, aged 70 years.

Philip Winter, who since 1853 has been located in Glenville, O., died on February 22, in his eighty-third year.

James Magill, W. Collingswood, N. J., passed away on February 27. He was for many years a popular florist in Tioga. His age was 65.

John C. Garden died at his home on Minnesota avenue, Anacostia, D. C., on March 11th, aged 57 years. Deceased came of a family of Scotch gardeners and was educated as such in his native country. After landing in this country he took up the additional industry of raising bedding plants. He was the eldest son of the late Alex. Garden and a half-brother of Alex. B. Garden of Washington, D. C.

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Our Tone Ware Vases and Bowls, in Pompeian Designs, are Unequalled for Rich Effect

We have a special CHIFFON in exact floral tints

It is not the cheapest but the best ever offered to the florist trade. Splendid Easter Baskets and Jardinieres are now in stock. Send for latest illustrated catalogue.

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Cor. Miami and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

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Cut Flowers of BEST QUALITY in season delivered promptly to any address.
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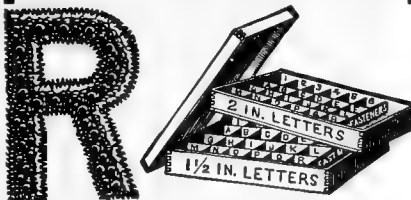
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AMERICAN BEAUTY

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	March 7				March 12		March 14	
ROSES								
Am. Beauty, Fan. & Sp.	35.00	to 40.00	to	60.00	to 75.00	35.00	to 50.00
" Extra.....	25.00	to 30.00	.....	to	40.00	to 50.00	25.00	to 30.00
" No. 1.....	15.00	to 20.00	.....	to	25.00	to 35.00	12.00	to 25.00
" Lower grades.....	6.00	to 10.00	.....	to	20.00	to 25.00	6.00	to 8.00
Bride, 'Maid, Golden Gate, F. & S.	8.00	to 12.00	.....	to	12.00	to 15.00	6.00	to 8.00
" " Extra.....	6.00	to 8.00	.....	to	10.00	to 12.00	5.00	to 6.00
" " " No. 1 & lw. gr.	4.00	to 6.00	.....	to	5.00	to 6.00	1.00	to 3.00
Liberty, Richmond, Fan. & Sp.	10.00	to 12.00	.....	to	25.00	to 30.00	10.00	to 15.00
" Lower grades.....	6.00	to 8.00	.....	to	12.00	to 15.00	6.00	to 8.00
Chatenay, Morgan, Fan. & Sp.	10.00	to 12.00	.....	to	15.00	to 20.00	10.00	to 12.00
" Lower grades.....	6.00	to 8.00	.....	to	6.00	to 10.00	4.00	to 8.00
Killarney, Wellesley, Fan. & Sp.	10.00	to 12.00	.....	to	15.00	to 20.00	8.00	to 12.00
" Lower grades.....	6.00	to 8.00	.....	to	8.00	to 10.00	4.00	to 6.00
CARNATIONS								
Fancy and Novelties.....	.....	to 3.00	.....	to	4.00	to 5.00	2.00	to 3.00
Ordinary.....	1.50	to 2.00	.....	to	2.00	to 3.00	1.00	to 1.50
MISCELLANEOUS								
Violets, Double.....	.....	to .50	.....	to .....	.75	to 1.00	.25	to .50
" Single.....	.....	to .50	.....	to .....	.40	to .50	.25	to .50
Cattleyas.....	40.00	to 50.00	.....	to .....	.....	to 75.00	35.00	to 50.00
Paper Wh. Nar., Rom. Hy., Freesia	3.00	to .....	.....	to	3.00	to 4.00	1.50	to 2.00
Tulips, Daffodils.....	2.00	to 5.00	.....	to	4.00	to 5.00	1.00	to 2.00
Lilies.....	10.00	to 15.00	.....	to	2.00	to	8.00	to 10.00
Lily of the Valley.....	3.00	to 4.00	.....	to	3.00	to 4.00	2.00	to 4.00
Gardenias.....	40.00	to 50.00	.....	to .....	.....	to 25.00	.....	to 25.00
Mignonette.....	4.00	to 8.00	.....	to	2.00	to 4.00	1.00	to 2.00
L. lacs (100 bunches).....	.....	to .....	.....	to	50.00	to 75.00	50.00	to 100.00
Adiantum.....	1.00	to 1.50	.....	to	1.00	to 1.50	1.00	to 1.50
Smilax.....	12.00	to 15.00	.....	to	20.00	to	12.00	to 16.00
Asparagus Plumosus, strings.....	25.00	to 50.00	to	50.00	to 75.00	to 50.00
" " & Spren. (100 bchs.)	25.00	to 50.00	to	50.00	to 75.00	35.00	to 50.00

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TO BUYERS

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Cut Flower Market Reports

BOSTON The market remains as yet very quiet with an abundance of stock with the exception of American Beauties. Roses in the smaller grades are selling plentifully while carnations still remain a drug in the market. Easter lilies are beginning to come in and the stock is in fine condition. Sweet peas and bulbous stock can be found in large quantities with but little demand.

Warmer weather and more stock was on the program the past week. It has been a matter of the wholesaler carrying all the stock and the retailer buying only what is needed. A very quiet week was again witnessed with no flurries in the market, the coolers being packed to over-flowing. An abundance of stock is carried along for days until something gives away and the bargain signs are seen. Roses have been very abundant and the quality has not been equalled for some time. Bridesmaids have been rich in color, excellent stem and foliage; Brides, Killarneys, Brunners, Chatenay and others in fine form. The outlook for Easter is very encouraging for a good crop. Harrisii and callas are coming in more plentifully daily, with demand very light. Carnations are a glut at times and hard to move at very low prices, the quality being excellent. White Lawson has never been better and is a ready seller while Enchantress is good in flower but too weak. Bulbous stock is still too abundant. Sweet peas, mignonette and violets are in good supply, demand light. A few spring openings consumed a portion of greens which have been somewhat scarce in this vicinity, especially smilax.

CINCINNATI Everything in the cut flower line is plentiful, in fact on some days the supply borders on a glut, but thus far we have escaped any serious over supply. Carnations especially are in full crop. Indications are that the present crop will not hold out till Easter and that this popular flower will be scarce then. Roses are in good shape and if the weather is favorable there will be enough to meet the demand. Bulbous stock continues to move fairly well considering the amount of other flowers on the market. Everything in the line of green goods is scarce except green dye for carnations. It is surprising how many originators there are for this wonderful coloring matter. They should direct their inventive genius toward fern leaves; just now, there would be more money in it.

COLUMBUS Trade keeps along in good volume, although prices have of course softened very much. Carnation prices went to pieces all at once. Of course we expect the "before Easter glut," but

are getting through it in good shape. It will not be long before growers will begin to hold stock back for the great festival of our year. Every dealer is making extensive preparations for it, and already many orders have been booked. There is no question about there being a splendid Easter business just ahead, and at this writing it looks like "high rates."

DETROIT Trade has picked up considerably and growers by keeping their carnations cool have caused the local glut to disappear. Roses are still on the scarce list. Violets and bulbous stock are plentiful. Easter outlook in the plant line is bright but cut flowers will be very short with the possible exception of tulips, hyacinths and daffodils. Lilies promise to be scarce.

INDIANAPOLIS Lent is here in full force. There is nothing of importance doing in a social way, and as a result business is quiet. Fancy Beauties are still few and far between, while teas are in fine quality and good supply. A large amount of bulbous stock is on the market, and can be had at reasonable prices. Lily of the valley is plentiful, but moves slowly. Quantities of extra fine sweet peas are to be had, also white lilac, both of which sell well. Easter lilies are not very plentiful, and the growers report no surplus in stock. There is a notable scarcity of greens of all kinds. The demand for potted plants holds up well and the assortment is good.

PHILADELPHIA Market featureless here the past week and almost as reported last week. Roses of all kinds are plentiful and good with the exception of American Beauty. That item is still scarce and of poor quality. Carnations are abundant and excellent and go at moderate figures. Lily of the valley is in fair shape as to quality but goes a bit slow. Violets are moving nicely although very plentiful. Orchids scarce. There is a little more life to the sweet pea market and supplies have shortened a little. Bulbous flowers of all kinds very plentiful and ahead of demand.

NEW YORK The market is very much depressed, receipts of roses are heavier, with lower quotations. The carnation shippers are controlling their

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Things are humming once more in the vicinity of 13th and Filbert Sts. Messrs. Berger Bros. are now comfortably established in their new quarters, number

1305

and doing the biggest business in their history. Visitors welcome. Their motto:

"Good service and a square deal all round."

BERGER BROS., Wholesale Florists
1305 Filbert Street, **PHILADELPHIA**

cut in anticipation, likely, of advancing prices as Easter approaches. The supply of all varieties of flowers is more than ample to meet present demands.

WASHINGTON But little can be said in praise of the market. The stagnation of a week ago remains unbroken. There is an overabundance on everything especially azaleas, Holland bulbs and violets, though the latter constitute the principal drug in the market. Arbutus is seen occasionally, but of poor quality and very limited quantity.

PERSONAL.

C. W. Ward of Queens, N. Y., sailed for Bermuda on March 9.

Henry Collins of Boston takes a position on the B. P. Cheney estate, April 1.

Visitors in Boston: Mr. Stearns, representing J. W. Sefton Mfg. Co., Chicago, Ill.

Peter Veraecker of Media, Pa., was thrown from a trolley car on March 2, and badly injured about the head.

Thomas Vincent, White Marsh, Md., is again able to attend to business, after an illness covering many months.

Gus Obermeyer, Parkersburg, W. Va., is recovering from a six weeks' illness of typhoid, and is again attending to business.

Visitors in Columbus, O.: N. J. Wietor, of Wietor Bros., Chicago, who returns with Wm. Graff of this city from a three weeks' Chicago trip.

A new store has opened corner Wabash and Adams streets, Chicago, in which Frank Williams is said to be interested.

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Greens and Beaven's Fadeless Sheet Moss. Write for Samples.

E. A. BEAVEN, Evergreen, Ala.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending March 9 1907	First Half of Week beginning Mar. 11 1907		Last Half of Week ending March 9 1907	First Half of Week beginning Mar. 11 1907
Roses			Carnations, Ordinary	1.00 to 2.00	1.00 to 1.50
Am. Beauty, fan and sp.	40.00 to 75.00	40.00 to 60.00	Violets, double .....	.20 to .50	.20 to .50
" extra	25.00 to 35.00	25.00 to 35.00	" single .....	.15 to .35	.20 to .35
" No. 1	15.00 to 20.00	15.00 to 20.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
Lower grades	2.00 to 8.00	1.00 to 8.00	Pap. Wh. Nar. Rom. Hy., Freesia	1.00 to 3.00	1.00 to 2.00
Bride, 'Maid, Golden Gate, fan & sp	8.00 to 10.00	6.00 to 10.00	Tu tips, Daffodils .....	.50 to 3.00	.50 to 2.00
" " " Extra	6.00 to 8.00	4.00 to 5.00	Lilies	1.00 to 12.00	1.00 to 12.00
" " " No. 1 & lw. gr.	3.00 to 5.00	2.00 to 4.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Liberty, Richmond, fancy & special	20.00 to 30.00	15.00 to 25.00	Gardenias	10.00 to 30.00	10.00 to 25.00
" lower grades ..	3.00 to 12.00	3.00 to 10.00	Nigronette	2.00 to 8.00	1.00 to 8.00
Chatenay, Morgan, fancy and spec.	3.00 to 10.00	2.00 to 10.00	Lilacs (100 bunches) .....	..... to .....	..... to
" lower grades ..	3.00 to 5.00	2.00 to 4.00	Adiantum .....	.50 to 1.00	.50 to 1.00
Killarney, Wellesley, fan. and spec.	10.00 to 12.00	8.00 to 12.00	Smilax	15.00 to 25.00	12.00 to 20.00
" lower grades ..	3.00 to 6.00	2.00 to 6.00	Asparagus Plumosus, strings...	25.00 to 35.00	20.00 to 35.00
Carnations, Fancy and Novelties..	2.00 to 4.00	2.00 to 5.00	" & Spren. (100 bchs.)	15.00 to 30.00	15.00 to 25.00

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GREEN and BRONZE GALAX, \$1.25 per 1000, LEUCOTHOE SPRAYS, \$1.00 per 100, \$7.50 per 1000
\$7.50 Case of 10,000

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BOXWOOD 20c lb., 50 lbs. \$8.50

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53 West 30th St. - NEW YORK
Wholesale Dealer

NEWS NOTES.

John Pehrson has started in business at 25 East 43d street, Chicago.

John K. Duer has opened a flower and plant shop at 644 Madison avenue, New York.

D'Alcorn & Sons, Portsmouth, Va., have opened a retail store at 412 Crawford street.

The new store of Siebrecht & Son, Broadway and 90th street, New York, is very attractive in its appointments.

It is stated that the Woodland Park Floral Co. has been forced to move from Seattle, Wash., to Puyallup, because of lack of Cedar river water.

Joseph Fuller of Leominster, Mass., has purchased the Stone estate on which are two large greenhouses which will speedily be utilized for his growing business.

Max Schnoor, Aqueduct, N. Y., has been missing from home since February 28. He is described as 5 feet 8 inches tall, dark complexion, hair and moustache, blue eyes.

Best Flowers

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BUFFALO, N. Y.

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NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000.

Case of 10,000, \$7.50.

Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

\$2.00 per 1000.



Best Southern Smilax, \$3.50 and \$7 per case.

Headquarters for all FLORISTS' SUPPLIES. Wire Designs,

Cut Wire, Letters, Immortelles, Cypas Leaves, Wheat

Sheaves, Ribbons, Corrugated Boxes, etc

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 15 Province St.,

9 Chapman Pl., Boston, Mass. L. D. Telephone, Main, 2617-2618.



WHOLESALE FLOWER MARKETS. — PER 100. TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	March 12		March 11		March 13		March 12	
ROSES								
Am. Beauty, Fan, and Sp.....	40.00	to 50.00	50.00	to 75.00	50.00	to 75.00	40.00	to 50.00
" Extra	30.00	to 35.00	20.00	to 40.00	25.00	to 45.00	20.00	to 30.00
" No. 1.....	20.00	to 25.00	12.00	to 15.00	20.00	to 25.00	8.00	to 12.00
" Lower grades.....	8.00	to 10.00	8.00	to 12.00	3.00	to 5.00	3.00	to 5.00
Bride, 'Maid, Golden Gate, F. & S.	8.00	to 10.00	10.00	to 15.00	.....	to 10.00	.....	to 15.00
" " " Extra.....	6.00	to 8.00	6.00	to 8.00	.....	to 8.00	10.00	to 12.00
" " " No. 1 & 1w. gr.	4.00	to 5.00	4.00	to 6.00	6.00	to 8.00	6.00	to 8.00
Liberty, Richmond, Fan, & Sp.	8.00	to 10.00	10.00	to 15.00	10.00	to 15.00	.....	to 15.00
" Lower grades.....	4.00	to 6.00	5.00	to 8.00	5.00	to 10.00	6.00	to 12.00
Chatenay, Morgan, Fan, & Sp.....	8.00	to 10.00	10.00	to 15.00	10.00	to 12.00	.....	to 12.00
" Lower grades.....	4.00	to 6.00	6.00	to 8.00	5.00	to 10.00	6.00	to 10.00
Killarney, Wellesley, Fan, & Sp....	.....	to	10.00	to 15.00	.....	to	8.00	to 12.00
" Lower grades .....	.....	to	6.00	to 8.00	.....	to .....	.....	to 6.00
CARNATIONS								
Fancy and Novelties.....	3.00	to 5.00	3.00	to 4.50	3.00	to 3.50	3.00	to 4.00
Ordinary	1.50	to 2.00	1.50	to 2.50	1.50	to 2.00	.....	to 2.00
MISCELLANEOUS								
Violets, Double .....	.35	to .50	.75	to 1.00	.40	to .75	.50	to .75
" Single .....	.35	to .50	.50	to 1.00	.20	to .50	.15	to .20
Cattleyas .....	.....	to	50.00	to .....	.....	to .....	.....	to
Paper Wh. Nar., Rom. Hy., Freesia	.....	to 3.00	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
Tulips, Daffodils	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00	3.00	to
Lilies	10.00	to 12.50	15.00	to 18.00	5.00	to 15.00	5.00	to 18.00
Lily of the Valley	3.00	to 4.00	2.00	to 4.50	3.00	to 4.00	2.00	to 4.00
Gardenias .....	.....	to .....	.....	to	25.00	to 35.00	.....	to
Mignonette .....	.....	to	6.00	to 8.00	2.00	to 5.00	3.00	to 6.00
Lilacs (100 bunches).....	.....	to .....	.....	to .....	.....	to	50.00	to 100.00
Adiantum .....	.....	to 1.00	1.00	to 1.50	.50	to 1.50	1.00	to 1.50
Smilax	12.50	to	15.00	to 18.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, strings.....	40.00	to 50.00	50.00	to 60.00	40.00	to 60.00	25.00	to 50.00
" " & Spreng. (100 bchs.)	to 25.00	30.00	to	25.00	to 30.00	20.00	to 50.00
Peas	to	to60	to 1.00	to

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Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 28 State St., Boston.
For page see List of Advertisers.

ACHYRANTHES.

Achyranthes, yellow, mottled red, 2 1-2 in., 3c. Hammerschmidt & Clark, Medina, Ohio.

ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

AMPELOPSIS.

5,000 Ampelopsis Veitchii, pot grown. Dormant, long Tops, \$4.00 per 100, and clean seed \$1.50 per lb. Cash. Benj. Connell, Florist, West Grove, Pa.

AQUATIC PLANTS

Edward S. Schmidt, 712 12th St., N. W., Washington, D. C.

ARAUCARIAS

Godfrey Aschmann,
1012 Ontario St., Philadelphia.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

ARTIFICIAL CARNATION CALYX

Maxfield & Dimond, Warren, R. I.
P. O. Box 304-D.
For page see List of Advertisers.

ASPARAGUS

Albert M. Herr, Lancaster, Pa.
Asparagus Robustus.
For page see List of Advertisers.

Asparagus Sprengeri, 2 in., \$2.25 per 100. Hammerschmidt & Clark, Medina, Ohio.

Plumosus, 3-in., \$5.00 100; \$40.00 1000. Christ. Winterich, Cyclamen Specialist, Defiance, Ohio.

Asparagus plumosus nanus and Sprengeri, 2 1-2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2 in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2 in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 785 Ellicott St., Buffalo, N. Y.

Asparagus Crawshawii, a new, beautiful asparagus. Seedlings, \$3.00 per 100; \$25.00 1000; transplanted seedlings, \$5.00 100; \$40.00 1000. Jas. Crawshaw, 403 Plainfield St., Providence, R. I.

ASPARAGUS SEED

S. S. Pennock-Meehan Co., Philadelphia.
For page see List of Advertisers.

ASTERS.

Novae-Angliae Asters, strong, \$3.00 per 100; \$25.00 per 1000. Ellsworth Brown & Co., Seabrook, N. H.

AZALEAS

Peter Henderson & Co., 35 & 37 Cortland St., New York.
For page see List of Advertisers.

A. Schultheis, College Point, N. Y.
For page see List of Advertisers.

John Scheepers & Co., 2-6 Old Slip, N. Y.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

Azaleas, well budded, 50c., 75c., and \$1.00 each. C. Whitton, City Street, Utica, N. Y.

BAMBOO CANES

R. M. Ward & Co., 12 W. Broadway, N. Y.
Seitaro Arai, Yokohama, Japan.

BAUR CARNATION CLIP AND PLIERS

Baur Floral Co., 18 W. 10th St., Erie, Pa.
For page see List of Advertisers.

BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

BEDDING PLANTS

J. E. Felthousen, Schenectady, N. Y.
For page see List of Advertisers.

C. Elsele, 11th and Roy Sts., Phila.
Spring Bedding Plants.
For page see List of Advertisers.

BEGONIAS

Begonias, mixed, many varieties, 2 1-4 in., 3c. Hammerschmidt & Clark, Medina, Ohio.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.
For page see List of Advertisers.

J. M. Thornburn & Co., 33 Barclay St., New York.
For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y.
For page see List of Advertisers.

Rickards Bros., 37 East 19th St., New York.
For page see List of Advertisers.

H. F. Michell Co., Philadelphia.
For page see List of Advertisers.

Johnson Seed Co., 217 Market St., Phila.
For page see List of Advertisers.

John Scheepers & Co., 4-6 Old Slip, N. Y.
For page see List of Advertisers.

Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

Bulbs. Cannas, Dahlias, Gladioli, Oxalis, Madelra and Cinnamon vines, Irls, Peonies. Finest stock. C. Betscher, Canal Dover, Ohio.

CALLAS

Baby Callas, 3 in., \$3.00 per 100. P. A. Baker, Media, Pa.

CANNAS

A. A. T. Boddington, 342 W. 14th St., N. Y.
For page see List of Advertisers.

The Conard & Jones Co., West Grove, Pa.
For page see List of Advertisers.

CANNAS—Continued.

Cannas, Very fine list. Send list of needs. C. Belscher, Canal Dover, Ohio.

Cannas, Pennsylvania, \$2.00; Niagara, Buttercup, \$5.00 per 100. P. A. Baker, Media, Pa.

50,000 Cannas, fine, \$10 to \$15 per 1000. Best sorts. Write Benj. Connell, West Grove, Pa.

Cannas. Good bulbs, 2 or 3 eyes, Austria, Robusta, Augusta Ferrier, King Edward, Victor Hugo, Morning Star, Paul Marquant, Pennsylvania, Robert Christie, Admiral Courbet, Mlle. Berat, Flamingo, Partenope, \$2.00 per 100. Started roots from sand after March 1, \$2.50 per 100. Est. of David Fisher, Woburn, Mass.

Cannas, sound roots, 2 to 3 eyes, true to name: Allemania, Austria, Burbank, Italia, Robusta, Metallica, \$1.25 per 100; \$10.00 per 1000. Martha Washington, Florence Vaughan, Wm. Bofinger, Chas. Henderson, Sec. Chabanne, \$1.50 per 100. America, Black Prins, Mrs. Kathie Gray, Pennsylvania, Coronet, \$2.00 per 100. Pierson's Premier, Souv. d. A. Crosby, Queen Charlotte, Egandale, \$2.50 per 100; \$22.50 per 1000. Black Beauty, Gladiator, Pres. Meyers, new, like King Humbert, \$4.00 per 100. All kinds mixed, \$1.00 per 100; \$7.50 per 1000. Dahlias, leading kinds named, \$3.50 per 100. Shellroad Greenhouses, Grange, Baltimore, Md.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.

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S. S. Skidelsky, 824 N. 24th St., Phila.

Rose Pink Enchantress.

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Chicago Carnation Co., Joliet, Ill.

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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Carnations, Winsor, White Enchantress, Helen M. Gould.

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A. J. Guttman, 43 W. 28th St., New York.
John E. Haines, Bethlehem, Pa.

Carnation Imperial and Pink Imperial.

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F. Dorner & Sons Co., Lafayette, Ind.

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Guttman & Weber, 43 W. 28th St., N. Y.
Carnation Victory.

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Peter Fisher, Ellis, Mass.

Cottage Gardens Co., Queens, N. Y.

Carnation Beacon.

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N. Y. Cut Flower Co., 55-57 W. 26th St., New York. J. A. Millang, Mgr.

Carnation Windsor Blooms.

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S. S. Pennock-Meehan Co., Philadelphia.
Harlowarden Greenhouses, Greenport, N. Y.

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John Barr, South Natick, Mass.

R. E. Molr, Brockton, Mass.

Carnation White Maid.

Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by Glass.

Send for list of rooted cuttings of new and leading commercial varieties of carnations and chrysanthemums. Wm. Swayne, Kennett Square, Pa.

We can furnish several thousand unrooted cuttings of Fair Maid and Queen Louise for immediate delivery at \$6.00 and \$5.00 per thousand. Cohanzie Carnation Greenhouses, New London, Conn.

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CARNATIONS—Continued.

Healthy rooted carnation cuttings Queen Louise, Hill, Gomez, Norway, Boston Market, \$9.00 per 1000. Melody, \$5.00 per 100. Red Lawson, \$15.00 per 100. Lawson, Harlowarden, Mrs. Nelson, \$12.50 per 1000. White Cloud unrooted, \$4.00 per 1000. Wm. Ehmann, Corfu, N. Y.

CHRYSANTHEMUMS

Eggelling Floral Co., 1653 S. Grand Ave., St. Louis, Mo.
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Charles H. Totty, Madison, N. J.
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Harlowarden Greenhouses, Greenport, New York.
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Chicago Carnation Co., Joliet, Ill.
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Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums, Jeanne Nonin, C. Touse, Mrs. Brice, Roi d'Italie. Fred Lemon, Merza, Cobbold, M. Ware, Oct. Sunshine, Beauty of Sussex, \$2.00 per 100. Glory Pacific, Kalb, Monrovia, Polly Rose, Alliance, Mrs. Robinson, J. Shrimpton, Bride, Bonnafton, Halliday, Duckham, Cullingford, Mrs. Chamberlain, Arline, Ermenilda, W. Bonnafton, Princess, M. Friend, Nellie Pockett, Lincoln, W. Jones, G. Wedding, Ben Wells, Yellow Eaton, Engue hard, Mrs. Weeks, Appleton, G. Trophy, Florence Teal, A. Balfour, Intensity, Mme. Perrin, \$1.50 per 100; \$12.50 per 1000. Wm. Ehmann, Corfu, N. Y.

CINERARIAS.

Cinerarias, 5 in., \$15.00 per 100. C. Whitton, City Street, Utica, N. Y.

CLEMATIS

Clematis Paniculata. Strong field-grown plants, \$15.00 per 100; strongest, \$30 per 100. Quotations on larger quantities. Est. David Fisher, Woburn, Mass.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

CYCLAMEN.

Cyclamen, 4 in., \$10.00; 5 in., \$15.00 per 100. C. Whitton, City Street, Utica, N. Y.

Giant Hybrids transpl., ready for 2-in. and 3-in., \$3.50 100; \$30.00 1000. Plants grown of seed taken from the cream of my well known strain. Christ. Winterich, Cyclamen Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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J. K. Alexander, E. Bridgewater, Mass.
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Harlowarden Greenhouses, Greenport, New York.
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Henry A. Dreer, 714 Chestnut St., Phila.
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THE DAHLIA MANUAL.

An up-to-date work on dahlias and dahlia culture, covering the whole field. Illustrated. Price, 35c. W. W. WILMORE, Box 382, Denver, Colo.

DAHLIAS—Continued.

I am again ready to handle your business. Only the cream of varieties handled. Standards and novelties, including Mrs. Winters, Mme. Dael, Navajo, Lonsdale, Dainty, Kriemhilde, etc. Catalogue of dahlias, hollyhocks, peonies and hardy plants now ready. W. W. WILMORE, Box 382, Denver Colo.

DAISIES

Alexandra Daisies, 2 in., \$1.50 per 100. P. A. Baker, Media, Pa.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

EASTER FLOWERING PLANTS

A. Schulthels, College Point, N. Y.
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John Scheepers & Co., 4-6 Old Slip, N. Y.
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A. Leuthy & Co., Roslindale, Mass.
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Godfrey Aschmann, Philadelphia.
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Bobbink & Atkins, Rutherford, N. J.
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John McKenzie, No. Cambridge, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitmani.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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P. R. Quinlan, Syracuse, N. Y.
Nephrolepis Whitmani and Elegantissima.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.
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Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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J. Stern & Co., 125 N. 10th St., Phila.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
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Thos. Young, Jr., 41 W. 28th St., N. Y.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Young & Nugent, 42 W. 28th St., N. Y.
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W. H. Donohoe, 2 W. 29th St., New York.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.
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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Ave and 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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Say! Send to Feustel, for prices on Red flower pots. Geo. E. Feustel, Fairport, Ia.

Syracuse Red Pots.
Syracuse Pottery Co., Syracuse, N. Y.
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GALAX

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
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Caldwell the Woodsman Decorating Co., Evergreen, Ala.
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Bronze and green galax. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

GERANIUMS

R. Vincent, Jr., & Son, White Marsh, Md.
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J. E. Felthousen, Schenectady, N. Y.
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Geraniums. 10 varieties 2-1-4 in., \$2.50 per 100. Mme. Salleri rooted cuttings, \$1.00; 2-in., \$2.00 per 100. Wm. Doel, Pascong, R. I.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.
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B. Hammond Tracy, Cedar Acres, Wenham, Mass.
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John Lewis Childs, Floral Park, N. Y.
"Top Notch" Gladioli.

Gladioli. C. Betscher, Canal Dover, O.

In writing to Advertisers kindly mention Horticulture

GLADIOLI—Continued.

Gladioli, named varieties. Write for list. E. E. Stewart, Rives Junction, Mich.

Gladiolus Augusta, 1st size, \$12.00; 2nd size, \$8.00 1000. Cash. Rowehl & Granz, Hicksville, N. Y.

GLASS

Boston Plate & Window Glass Co., Boston. For page see List of Advertisers.

George Steengrafe, Irvington-on-the-Hudson, N. Y.

Standard Plate Glass Co., Boston.

Peerless Glass Repair Clamp; you need them—100 for \$1.00. A. Klokner, Wauwatosa, Wis.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa. For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.

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Hitchings & Co., 1170 Broadway, N. Y. For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston. For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y. For page see List of Advertisers.

J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.

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Weathered Co., Box 789, New York. For page see List of Advertisers.

Foley Mfg. Co., 471 W. 22nd St., Chicago. For page see List of Advertisers.

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Mineralized Rubber Co., 18 Cliff St., N. Y. For page see List of Advertisers.

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Buxton & Allard, Nashua, N. H. Economy Greenhouse Bracket. For page see List of Advertisers.

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Benj. Hammond, Fishkill-on-Hudson, N. Y. For page see List of Advertisers.

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The Kervan Co., 20 W. 27th St., New York.

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

Fancy Ferns.

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E. A. Beaven, Evergreen, Ala.

Fadeless Sheet Moss.

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Hardy cut ferns. L. B. Brague, Hinsdale, Mass.

Fancy Ferns, green sheet moss; leucothoe sprays, etc. C. E. Critchell, 36 E. 3rd St., Cincinnati, O.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass. For page see List of Advertisers.

Yucca Filamentosa, No. 1, 4c.; Iris Sibirica, 3c. Ellsworth Brown & Co., Seabrook, N. H.

HEATING APPARATUS

Lord & Burnham Co., 1133 Broadway, New York.

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Hitchings & Co., 1170 Broadway, N. Y. For page see List of Advertisers.

Kroeschell Bros., 35 Erie St., Chicago. For page see List of Advertisers.

HELIOTROPES.

Heliotropes (dark), good stock, strong and well rooted, R. C., 60c. 100; \$5.00 per 1000. Cash. J. P. Cannata, Mt. Freedom, N. J.

HOLLYHOCKS

Hollyhocks. Large field-grown plants, \$3.00 per 100. Double in separate colors of red, white, pink, yellow and maroon; also the Allegheny strain. Send for catalogue of hollyhocks, dahlias and hardy plants. W. W. WILMORE, Box 382, Denver, Colo.

HONEYSUCKLES.

Golden Honeysuckles, 7c. Ellsworth Brown & Co., Seabrook, N. H.

HORICUM

Hammond's P. & S. S. Works, Fishkill-on-Hudson, N. Y.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.

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Hitchings & Co., 1170 Broadway, N. Y. For page see List of Advertisers.

Lord & Burnham Co., 1133 Broadway, N. Y. For page see List of Advertisers.

HOT WATER CIRCULATOR

Holly-Castle Co., 170 Summer St., Boston.

HYDRANGEAS.

Hydrangea paniculata grandiflora, 3 ft., Sc. Ellsworth Brown & Co., Seabrook, N. H.

INSECTICIDES.

W. H. Kuld, Norwood, Mass. Century Insecticide.

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R. M. Ward & Co., 12 W. Broadway, N. Y. Seitaro Arai, Yokohama, Japan.

KENTIAS

Godfrey Aschmann, 1012 Ontario St., Phila. For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass. For page see List of Advertisers.

LAWN AND CEMETERY VASES

Kramer Bros. Foundry Co., Dayton, Ohio.

LAWN MOWER

Clipper Lawn Mower Co., Dixon, Ill. For page see List of Advertisers.

LEADING RETAIL FLORISTS

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Thomas Young, Jr., New York.

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J. Breitmeyer's Sons, Detroit, Mich.

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George H. Cooke, Washington, D. C.

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Samuel Murray, 1017 Broadway, Kansas City, Mo.

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Gude Bros. Co., 1214 F St., Washington, D. C.

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Eyres, 11 N. Pearl St., Albany, N. Y.

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Young & Nugent, 42 W. 28th St., N. Y.

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Mills, the Florist, Jacksonville, Fla. Telegraph or mail orders promptly filled.

Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.

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LEADING RETAIL FLORISTS—Continued.

P. J. Hauswirth (temporary address) 13 Congress St., Chicago.

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Park Floral Co., Denver, Colo.

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Thos. F. Galvin, 124 Tremont St., Boston.

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W. H. Donohoe, 2 W. 29th St., New York.

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LILACS

Philadelphus, Syringa grandiflora, 3 years, strong, \$15.00 per 100. John Stamm, Hutchinson, Kan.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York. For page see List of Advertisers.

NICO-FUME

Ky. Tobacco Product Co., Louisville, Ky. For page see List of Advertisers.

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Nicotine Mfg. Co., St. Louis, Mo. For page see List of Advertisers.

NURSERY STOCK

John Waterer & Sons, Ltd., American Nursery, Bagshot, England.

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Cottage Gardens Co., Queens, N. Y.

Specimen Nursery Stock.

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John Scheepers & Co., 4-6 Old Slip, N. Y. For page see List of Advertisers.

The Conard & Jones Co., West Grove, Pa. For page see List of Advertisers.

F. W. Kelsey, 150 Broadway, New York.

Elizabeth Nursery Co., Elizabeth, N. J. For page see List of Advertisers.

The F. E. Conine Nursery Co., Stratford, Conn.

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Ellwanger & Barry, Rochester, N. Y.

Cut leaf Stagbom sumach, large stock, 6c. to 15c.; Kudzu Vines, 15c. Edw. Teas, Joplin, Mo.

5,000 Japan Barberry seedlings, strong, \$10.00 per 1000. Euonymus radicans, 1 ft. transplanted, \$4.00 per 100. Spirea Anthony Waterer, 2 ft., \$8.00 per 100. Golden Syringa, 20 in., \$8.50 per 100. B-B Nursery, West Newton, Mass.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J. For page see List of Advertisers.

Sander, St. Albans, England.

Importers, Exporters, Growers, Hybridists. For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.

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Carrillo & Baldwin, Secaucus, N. J.

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Seibrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.

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Jos. A. Manda, 191 Valley Road, W. Orange, N. J.

Orchids, Orchid Baskets, Peat.

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Seibrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.

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PANSIES

Pansy plants; strong transplanted, \$10.00 per 1000. F. A. Baller, Bloomington, Ill.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Peonies, fine assortment, \$10.00 per 100.
F. A. Baller, Bloomington, Ill.

Peonies, 1200 sorts. Greatest list anywhere.
C. Betscher, Canal Dover, Ohio.

Wholesale grower of peonies. List of 100 varieties.
J. F. Rosenfield, West Point, Neb.

PETUNIAS

The Yates Floral Co., Canajoharie, N. Y.
Scranton Florists' Supply Co., Scranton, Penn.

Double Petunia the Queen.
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Petunias, double pink and white, 2 1-4 in., 3 1-2 c. Hammerschmidt & Clark, Medina, Ohio.

PHALAENOPSIS.

A few fine plants of Phalaenopsis Schilleriana for sale, leaves ranging from 12 in. to 16 in. long. O. A. Miller, 48 Watson Avenue, East Orange, N. J.

PHLOXES

Hardy phlox, best assortment, standard varieties, 2-year, field clumps, \$3.00 per 100; \$25.00 per 1000. John Stamm, Hutchinson, Kan.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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PRIMULAS.

Primula obs. gig., 3 1-2 in., bud and bloom, 6c. Hammerschmidt & Clark, Medina, Ohio.

PRIVET

10,000 California Privet 1-year, well rooted. \$1.25 per 100; \$10.00 per 1,000. Address W. F. Allen, Salisbury, Md.

PRUNING SHEARS

Rhodes Mfg. Co., Grand Rapids, Mich.
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RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES

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Hardy Roses, H. T. Roses and Ramblers.
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Bassett & Washburn, Hinsdale, Ill.
Rooted Cuttings of Kaiserin, Pres. Carnot, La Detroit.

Paul Niehoff, Leighton, Pa.
Rose Aurora.

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Robert Scott & Son, Sharon Hill, Del. Co., Pa.
Grafted Roses.

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The Conard & Jones Co., West Grove, Pa.
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Bay State Nurseries, No. Abington, Mass.
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S. S. Pennock-Meehan Co., Philadelphia.
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A. N. Pierson, Cromwell, Conn.
Grafted Roses, Own-Root Beauties.
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Chicago Carnation Co., Joliet, Ill.
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Ellwanger & Barry, Rochester, N. Y.

Leedle Floral Co., Springfield, Ohio.
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W. W. Rawson & Co., 5 Union St., Boston.
Rose Charlotte Klemm.

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Eastern Nurseries, Jamaica Plain, Mass.
Rose Frau Karl Druschki.
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Minneapolis Floral Co., Minneapolis, Minn.
Rose Miss Kate Moulton.

J. H. Troy, New Rochelle, N. Y.
Hardy Roses.
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R. & J. Farquhar & Co., Boston.
Hardy Hybrid Perpetual English Grown.

Dingee & Conard Co., West Grove, Pa.
Hardy Roses; Killarney on Own Roots.

Low-budded roses, No. 1, \$95.00; No. 1 1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

American Beauties, 2 1-2 in., \$8.00 per 100; \$75.00 per 1000. Chas. H. Totty, Madison, N. J.

Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1-4 in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

RUBBERS

Rubbers, strong plants, 4-in., 20c.; 5-in., extra strong, 25c. Cash. Fuhlbruegge Bros., Winona, Minn.

SEEDS

T. J. Grey & Co., 32 So. Market St., Boston, Mass.
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Joseph Breck & Sons
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
"New Creations" in Bush Limas.
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C. C. Morse & Co., 171-73 Clay St., San Francisco, Calif.
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ASTER SEEDS, home grown. Bargain list ready. H. W. Koerner, Sta. B. Milwaukee, Wis.

I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston.
Pulverized Sheep Manure.
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SHEET MOSS

E. A. Beaven, Evergreen, Ala.
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SHRUBS.

Japanese Wistarias, 8c.; Berberis Thunbergii, 12 to 18 in., 3 1-2 c.; Hibiscus, C. Eye and Pink, 3c.; Norway Spruce, 1 1-2 to 2 1-2 ft., 5c. Ellsworth Brown & Co., Seabrook, N. H.

Ellwanger & Barry, Rochester, N. Y.

SMALL FRUIT PLANTS

Dewberry plants, Lucretia and Austin, \$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00 per 1000, \$25.00 per 5000. Turner red raspberry plants, \$6.00 per 1000, \$25.00 per 5000. W. F. Allen, Salisbury, Md.

SMILAX

Smilax seedlings, fall-sown, \$3.00 per 1000. F. A. Baller, Bloomington, Ill.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

Spiraea, Van Houttii, 2 to 3 ft., 6c.; 18 to 24 in., 4c. Ellsworth Brown & Co., Seabrook, N. H.

STEAM TRAP

E. Hippard, Youngstown, O.
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STOCKS

Stocks. Snowflake or Dwarf Bouquet, Benary's strain, 90 per cent. double, white, blue, red, each separate, for Easter bloom, 2-inch, \$2.00 per 100; \$15.00 per 1000; seeds cheap. Cash. Shellroad Greenhouses, Grange, Baltimore, Md.

STRAWBERRY PLANTS

Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

TOMATO SEEDS

Wm. Sim, Cliftondale, Mass.
Comet Tomato.
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VEGETABLE PLANTS

50,000 large 4-year old Barrs Mammoth Asparagus roots, \$6.00 per 1000; \$25.00 per 5000 (500 will fill a sugar barrel.) Address W. F. Allen, Salisbury, Md.

VENTILATING APPARATUS

Lord & Burnham Co., 1133 Broadway, N. Y.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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The Advance Co., Richmond, Ind.
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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VINCAS

10,000 vincas 2 1-2 in., fine, \$2.50 per 100; \$20.00 per 1000. R. Cuttings same, \$1.00 per 100; \$7.00 per 1000. Cash, please. Benj. Connell, West Grove, Pa.

VIOLETS

H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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In writing to Advertisers kindly mention Horticulture

VIOLETS—Continued.

Princess of Wales Violets. Rooted cuttings, 75c. 100; 2-in. pot plants, \$2.50 Wm. Doel, Pascoag, R. I.

WILD SMILAX

E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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WIREWORLD

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

Wire work, all kinds. C. E. Critchell,
36 E. 3rd St., Cincinnati, O.

William E. Heilscher's Wire Works, 38 40
Broadway, Detroit, Mich.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
Cincinnati, O.

Wire work. Get our special price for
March. Scranton Florist Supply Co., Scranton,
Pa.

WIRE SUPPORTS

The Heim Carnation Support. Write for
price. Heim Carnation Support Co., Connersville,
Ind.

WHOLESALE FLORISTS**Boston**

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Michigan Cut Flower Exchange, 38 & 40
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Pittsburg

J. B. Murdoch & Co., 545 Liberty St.,
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New Offers in This Issue.**AMERICAN ARBORVITAE.**

The Wm. H. Moon Co., Morrisville, Pa.
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EASTER PLANT LIST.

S. S. Pennock-Meehan Co., Philadelphia.
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EXAMINATION FOR GARDENER.

City of New York, N. Y., F. A. Spencer,
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LILY OF THE VALLEY PIPS: JAPANESE LILIES.

Johnson Seed Co., 217 Market St., Philadelphia.
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The New England Nurseries Co., Inc., Bedford,
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WHOLESALE FLORIST.

A. M. Campbell, 1510 Sansom St., Philadelphia.
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NEW YORK FLORISTS' CLUB.

Sixty members were present at the March meeting of the club to listen to the practical paper by John Birnie on "The needs of New York as regards a plant market." President Totty presided. An interesting talk was also given by Mr. Weisner of Holland on bulb growing in that country and the popularity of orchids in England. John Scott, who was president in 1906, was presented with a beautiful diamond horseshoe, the presentation speech being made by Alex. Wallace. A motion was made and carried regarding the permanent home of the club, the officers and trustees to devise ways and means for procuring the same. W. F. Sheridan's motion regarding a committee on membership was laid over until the next meeting. The committee on awards who visited the establishment of Ant C. Zvolanek, Bound Brook, N. J., on March 5, for the purpose of examining new sweet peas, offered the following report: To Le Marquis, Mrs. Alexander Wallace, Wm. J. Stewart, Mrs. Wm. Sim, certificates of merit; Helen M. Gould and Mrs. F. J. Dolansky were not in condition to be judged.

Julius Roehrs, Jr., the newly-elected trustee, addressed the meeting, promising to do his duty in the coming year. Jno. Nugent, and his assistants, Messrs. Rickards and Schultz, had a splendid layout of refreshments. Chairman Nugent announced a Ladies Night for the April meeting.

Following is a list of exhibits, with the comments of the committee:

Frank Kramer, Washington, D. C., rose Queen Beatrice, four vases; preliminary certificate.

Malachi Tierney, Highland, N. J., carnation seedling Mrs. Robert Hartshorne; 80 points.

Paul Niehoff, Leighton, Pa., new rose Aurora; preliminary certificate.

E. H. Pye, Nyack, N. Y., Kaiserin roses; cultural certificate.

A. Demcusy, Flatbush, L. I., crimson seedling shown in fine condition; already awarded preliminary certificate.

Maxfield & Dimond, Barrington, R. I., artificial calyx support; vote of thanks.

CLUB AND SOCIETY NOTES.

At the meeting of the Holyoke Horticultural Society (Mass.), March 6, M. L. Graves spoke on the culture of the rose.

The lecture before the American Institute, New York, on Wednesday, March 13, was by G. J. Powell, on "Propagation, Planting and Care of Fruit Trees," with demonstrations of grafting and budding.

The Worcester County Horticultural Society held its first flower show of the season on March 7. Among the exhibitors were George McWilliams, gardener for G. M. Whitin, H. F. A. Lange, E. W. Breed, L. Midgley, W. McAllister, gardener for Mrs. John C. Whitin.

The spring exhibition of the Massachusetts Horticultural Society will be held in Horticultural Hall, Boston, on March 22, 23, 24. The display of spring bulbs and Easter flowering plants promises to eclipse anything previously shown here. The ladies' orchestra will furnish music every evening from 7.30 to 9.30, and Saturday and Sunday afternoons from 3 to 5.

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NEWPORT NOTES.

Andrew Christensen, for several years gardener for Miss Fanny Foster on Leroy avenue, has resigned and will take up his residence on Russell avenue in a handsome cottage now nearing completion.

Mr. and Mrs. Arendt Brandt celebrated their silver wedding anniversary last week at their home in Newport. Many relatives and intimate friends gathered to assist in the celebration and to bestow suitable remembrances of the occasion upon the happy and genial couple.

The conference of the Federation of Societies for Rural Progress will be held in Newport March 14 and 15, when speakers of national prominence will take part. It is expected that Prof. Bailey of Cornell will deliver the principal address on matters relating to horticulture.

Messrs. Alexander MacLellan and John T. Allen, who have been quite ill with grip, are rapidly improving.

FIRE RECORD.

The store of Chas. Stahl, 610 East 143d street, New York, was destroyed by fire on March 1.

The greenhouses of Mrs. E. M. Bullock, Elkhart, Ind., were destroyed by fire on February 28. There was no insurance and the loss will be heavy.

J. J. McManmon, Lowell, Mass., suffered from smoke and water incident to a fire in the upper floors of the building in which his stock is located.

The dwelling in which Minder Bros. resided at Cottage Hill, D. C., was destroyed by fire on February 24. Local fire apparatus was of little avail owing to the difficulties in reaching the place. It is understood that the greenhouses were not hurt, and that about \$3,000 insurance was upon the dwelling.

GREENHOUSES BUILDING AND CONTEMPLATED.

New.

Quidnick, R. I.—J. H. Cushing, one house.

Kansas City, Mo.—E. D. Ellsworth, conservatory.

Chicago, Ill.—Frank Beu, one house, 18x120; A. Erickson, two houses, each 25x140.

Brentwood, N. H.—E. F. Prescott & Son, one house.

Hamilton, Mass.—W. Knowlton, one house.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

HELP WANTED

MUNICIPAL CIVIL SERVICE COMMISSION

209 Broadway.
New York, March 11, 1907.

PUBLIC NOTICE IS HEREBY GIVEN that applications will be received from Monday, March 11, until 4 P. M. Monday, March 25, 1907, for the position of GARDENER.

The examination will be held on Friday, April 5, 1907, at 10 A. M. The examination is open to all citizens of the United States.

For scope of examination and further information, apply to the Secretary.
FRANK A. SPENCER, Secretary.

HELP WANTED

WANTED—A good designer capable of taking care of 3 small greenhouses and small garden. Of good experience; strictly sober, honest and reliable; well up in English; capable of taking telephone orders. References required. Address J. Fuller, 31 Orchard St., Leominster, Mass.

WANTED—A good, reliable nurseryman who understands the propagation of shrubs, perennials, etc., and who has had experience in landscape work. Give full particulars and state salary expected. C. R. Fish & Company, Worcester, Mass.

WANTED—A good working gardener with some experience in outdoor planting and hardy rose culture. Steady job for the right man. Address M. W., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—Gardener as assistant, competent in all branches, capable of taking entire charge. Place private. Apply stating age, wages expected, with references, Box 232, Glen Cove, Nassau Co., N. Y.

WANTED—A sober and reliable all-round man on a commercial place. Address Geo. E. Felch, Ayer, Mass., Box 455.

WANTED—One good man to work in rose houses. Apply to William R. Morris, Wellesley, Mass.

SITUATIONS WANTED

WANTED—Position by gardener, five years' experience as sub-foreman of Botanical Garden in Montserrat, W. I.; has general knowledge of plant life; can bud, prune, graft, etc. Willing to start at regular wages. Good Boston references. Address Fred, care HORTICULTURE.

SITUATION WANTED as superintendent and gardener on private estate. Full knowledge and experience in laying out and planting, plant houses, vegetables and fruit outside and under glass. Testimonials. Married; no children. Address S., care HORTICULTURE.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

BUSINESS CHANCES

WANTED—A partner for a good wholesale and retail florist business near Boston. Must furnish some capital and be of good character. Address L. G., care HORTICULTURE, 11 Hamilton Place, Boston.

MISCELLANEOUS

New England Lily of the Valley forcers will hear of something advantageous by addressing Jans Schmidt, care of HORTICULTURE, 11 Hamilton Place, Boston.

FOR SALE

FOR SALE

Desirable greenhouse plant, directly opposite Woodlawn Cemetery, Everett, Mass. Large and increasing demand for funeral designs, bouquets and bedding stuff. Care of lots in the Cemetery, a branch of the business. Fine dwelling house with all modern improvements, 6000 ft. of glass, 45,000 ft. of land. Paying business with open chance to increase. Sold on account of advancing years. Apply to William Christie, Woodlawn Ave., Everett, Mass., or at Horticulture office 11 Hamilton Place, Boston.

FLORISTS' WAGONS FOR SALE

Three florists' open wagons, three florists' top wagons and three sets of harnesses. Can be seen at 1 West 28 St., New York.

EDWARD HIGGINS.

FOR SALE—Greenhouse Pipe

4-in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

Is Your Name In The Above List? If Not, Why Not?

Tobacco Paper "NICO-FUME" LIQUID

IS THE
**STRONGEST,
BEST PACKED,
EASIEST APPLIED.**

24 sheets.....\$ 0.75
144 sheets..... 3.50
288 sheets..... 6.50
1728 sheets..... 35.10

**Furnishes the
Most Nicotine for the Money!**

... Manufactured by ...
THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

**By far the
CHEAPEST.**

JUS NOTE PRICES!
Pint.....\$ 1.50
1/2 Gallon..... 5.50
Gallon..... 10.50
5 Gallons..... 47.25

NIKOTEEN APHIS PUNK

THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
STRONGEST AND MOST UNIFORM

PRICE 60¢
PER BOX OF 12
LONG SHEETS \$6.50 PER
CASE OF
12 BOXES.

NIKOTEEN

LIQUID
FOR SPRAYING OR VAPORIZING
PRICE \$1.50
PER PINT
BOTTLE \$13.00 PER
CASE OF 10
PINT BOTTLES.

NICOTINE MFG. CO. ST. LOUIS MO.



Why not try

ANCHOR GREENHOUSE HOSE

on your next order.

Plant Bed Cloth protects from frost, insects, etc., and still allows free circulation of air.

Mineralized Rubber Co.
18 Cliff Street, New York

In ordering goods please add "I saw it in HORTICULTURE."

**RHODES DOUBLE OUT
PRUNING SHEAR**



RHODES MFG. CO.

Dept. 4.

GRAND RAPIDS, MICH.

Cuts from both sides of limb and does not bruise the bark. We pay Express charges on all orders. Write for circular and prices.

HAMMOND'S COPPER SOLUTION

FUNGUS

1889

KILLS BLIGHT, ROT & MILDEWS.

STEALTHY AND DEADLY, IS DOOMED.

TRADE MARK.

Century Insecticide DEATH TO INSECTS

Cheapest and best on market. Once used, always used. Positively kills green and black fly, mealy bugs, red spider, scale, thrips or any insect on flowers, plants, trees, vegetables, etc. Will not injure scent or discolor the most delicate flowers and foliage. Also sure death to Gypsy and Tussock Moths. Especially adapted for Roses, Carnations, Chrysanthemums, Heliotropes, Smilax and Ferns. Handled by Leading Seedsmen \$2.25 per can of 5 Gallons. Also sold in barrels of 25 and 50 gallons.

Prepared by **W. H. KULD,**

NORWOOD, MASS.

Boston Plate & Window Glass Co. GREENHOUSE GLASS

German and American

261 to 287 A Street

BOSTON

20-22 Canal Street



Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 1/2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 3 1/2 " " " 5.25	60 8 " " " 3.00
1500 4 1/2 " " " 6.00	48 9 in. pots in crate \$3.60
1000 3 " " " 5.00	48 10 " " " 4.80
800 3 1/2 " " " 5.80	24 11 " " " 4.80
500 4 " " " 4.50	24 12 " " " 4.80
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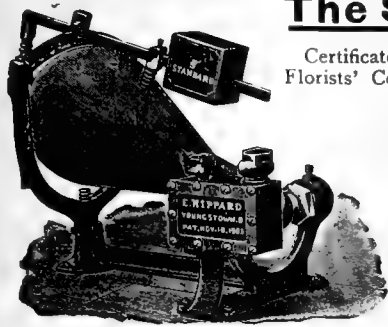
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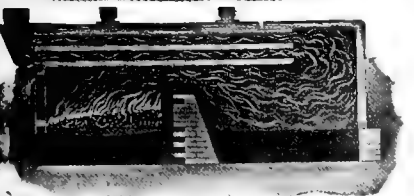
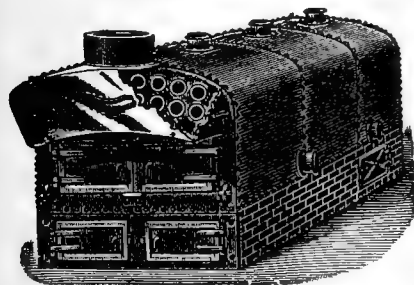
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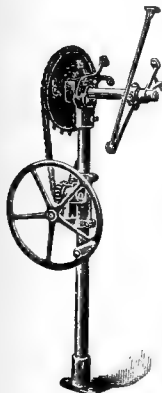
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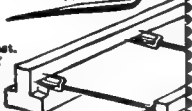
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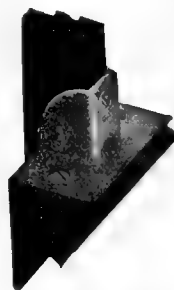
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HORTICULTURE

Vol. V.

MARCH 23, 1907

No. 12



EASTER 1907

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On these specialties I have no superior. Azaleas are superb this year and the proportion of the popular but scarce pyramidal form is large. Quotations by dozen or hundred lots. We have the Firefly and Chas. Enke in quantity. Ericas, Persoluta Alba, Cupressina, Cavendishii and Translucens, are splendid and every up-to-date florist should have them. Hydrangeas, Oranges, Tulips, Boronias, Gardenias, Cyclamens, Daisies, Acacia paradoxa and a host of other desirable things.

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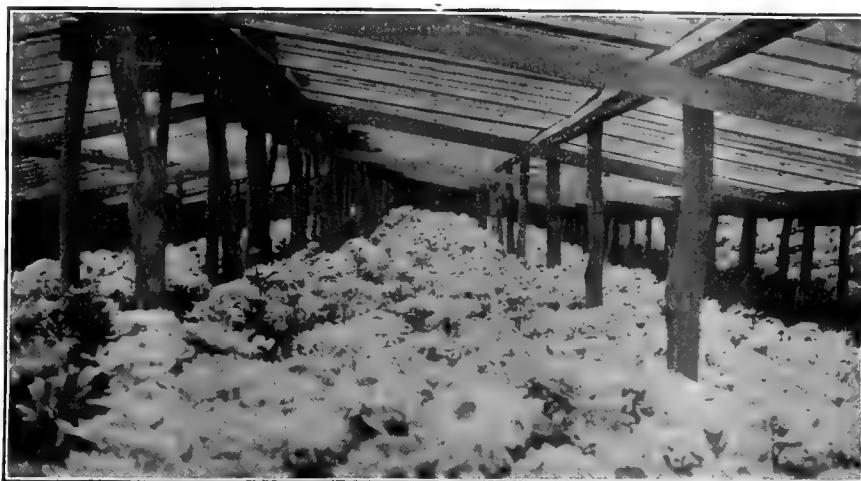
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THE NEW
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Commercial Chrysanthemum Culture in France

Visitors to Paris and also to other large towns in France such as Lyons, Marseilles, Bordeaux, etc., during the autumn months must often have noticed in the florists' shops and in the flower markets the extensive way in which the chrysanthemum is exhibited for sale.



In the florists' shops of the better class one notices chiefly the large quantities of big blooms that are arranged in various artistic ways; in the markets it is chiefly pot plants of freely flowered varieties and bunches of cut blooms that can be purchased for a few sous.

The vendors of these are seldom or never the growers. It is a trade exclusively in the hands of those who grow for market or for the florists, many of whom deal directly with the growers. In England our chrysanthemum specialists such as Jones, Davis, Cannell, Wills and others have very fine collections of chrysanthemums in flower all through the season but the blooms are not grown for the purpose of sale but are chiefly for the purpose of exhibiting at the shows by way of advertisement for the sale of plants and cuttings and for the providing of an autumnal display to which their customers are freely invited. It is one of the pleasant features of the chrysanthemum season here to be able to go the round of the trade growers and importers and inspect the novelties at the time of their flowering.

In France, however, this custom is not so general and while in England the visitor can at any reasonable hour during the day time walk into any of our nurseries where the chrysanthemum is grown and inspect the collection it would be practically impossible to do so in a French nursery without a special invitation or permit. I remember on one occasion making a long journey to see a collection in the north of France and when I arrived the proprietor was away from home. All my prayers and entreaties as a visitor from England were of no avail to the man in charge. I had no "authorization" and therefore the thing was impossible.

Paris is perhaps the greatest market for chrysanthemums in France and it is curious that plant dealers and raisers of new seedlings should also grow blooms for supplying the market and the florists. But this is probably explained by the fact that their trade in plants and cuttings is much more limited than that of our growers in England. the small amateur grower in

France being almost a negligible quantity while in England he is a most important factor in the trade chrysanthemum growers' business, so much so that a trade grower will seldom enter into competition for the prizes offered at our shows

with the amateurs who are his best customers.

Ernest Calvat, besides being a large raiser of novelties, is also a big trade grower of cut blooms. They are always immense exhibition flowers cut with stems about 3 feet long and are despatched to Paris and other places in immense numbers. Anatole Cardonnier is another of the well known growers of big blooms for the Paris market, and for all the high-class florists, his despatches beginning about the 8th of September and lasting till about the middle of November. He has a fine establishment at Bailleul in the north of France where he grows other things such as forced fruits, etc., and in every respect his Grapperies der Nord is a model establishment, and worthy of a visit.

In and around Paris the market is principally supplied by two kinds of growers. One class is composed of those little nurserymen who cultivate other things and simply fill up the end of the season by growing chrysanthemums in the open and cutting whatever bloom they get from plants that have had no special attention paid to them. The other class are men who grow big blooms under glass. By this term is meant merely glass shelves, for a proper showhouse such as we understand it is not necessary and probably could not be well afforded.

To an English eye these glass shelves are the queerest constructions in the world. They are dreadfully primitive and when it rains the water pours through the roof soaking the plants, the blooms and the ground beneath. They form a striking contrast to the well built span roofed houses in which our English growers house their plants.

An English grower will generally say he has a house or houses so many feet by so many as the case may be. The French grower reckons his by the number of frames. It is a curious experience to visit one of these places, and an uncomfortable one, too. First of all a number of rough posts are driven into the ground at intervals, cross pieces are then placed on top, sloping so as to make a kind of ridge and furrow; on these are

laid the frames seldom more than six feet high from the ground, occasionally less, which renders it very difficult for a tall man to get about. When it rains there is of course a crack between and around each frame and if the visitor tries to dodge the water that comes through he gets a stream either down the back of his neck or else on his note book. The sides are open, except when it is very cold and then straw mats are used for protection. Sometimes a closed stove is erected to help to keep the temperature up. The pots are partly sunk in the ground. There are no paths properly made and the slop and mud in wet weather ought certainly to rot off the whole collection. It may be, however, that being open at the sides the wind soon dries up the place and this misfortune is thus averted.

Last autumn, when in Paris, I thought I would like to visit one or two of these market growers. My old friend, Aug. Nonin, one of the best hearted, most genial Frenchmen I ever knew, kindly volunteered to pilot me around and invited me to lunch by way of starting the day. Chatillon-sous-Bagneux, where he lives, is a good ride by the electric train towards the south past the fortifications quite into the open country. The residence is a neat little detached villa, rough cast, with stone facings standing just behind an iron railing. Internally everything is neat, tidy and comfortable and we pass a pleasant hour or two with the family before starting on our journey of inspection.

Although this is not the first visit we determine to go around the Nonin collection. This is housed in a manner similar to that already described. The earlies, however, are further off and in the open. M. Nonin's business is more like that of our own growers and a few particulars may be useful. Just now he has 350 novelties on trial. His own collection consisted of 500 varieties grown in 4,000 plants in pots. His earlies number about 200 varieties and it is in this section that he has been chiefly successful of late years. He is not a market grower, although cut blooms are sold on the premises to local purchasers. He is a seedling raiser of novelties and a cultivator of plants and cuttings for amateur and other growers. These are sent all over France; the fewest perhaps go to Brittany, and also to places abroad.

As we wander along we notice many fine specimen blooms, seedlings for 1908, which are on trial. Others that attract attention are some already well known. But some rarer are Mme. de Largentaye, rosy white, Jap; Ami Gautier, mahogany red; Mousse Orientale, a pale golden yellow hairy variety; Dubuisson Foubert, a Jap, color amber buff; Mlle. Jeanne Bois, a fine new white; Douceur Angevine, lilac mauve; Loango, golden bronze; Mme. Henri Delizy, white tinted purple; and very many more of the true show type. Dahlias, carnations, begonias, etc., are also strongly in evidence.

Among decorative chrysanthemums of special merit for outdoor culture we note Tapis d'Or, Menelik, Champ d'Or, Acajon, Flocon de Neige, Orange Pet, etc.

The Value of Bulb Stock

That bulb flowers have really never been appreciated at their full value, I know the reader of this short article will instantly deny. You have in your mind the prominent place that everything in bulb stock has taken, not only in the florists' trade, but also in the private greenhouses of this country during the past few months. Of course for years both private and commercial growers have grown bulb flowers in ever increasing quantities; but when it comes right down to the facts in the case, the private-grower has used his hyacinths, tulips, and narcissi for filling-in purposes—when roses, carnations, violets, and orchids (which I should have mentioned first) were in short supply. It is the same with the commercial florist—he says to his customer, "I have no roses, carnations, or violets, but I have some very good tulips, yes, and some excellent daffodils." What I wish to bring out is this—we have all of us been very prone to look down upon bulb flowers; they are good enough to fill in with, but never have had a seat at the first table. Now I want to ask you a question, and it is simply this: What would the flower trade of America have done without Dutch bulb flower stock, during the past six weeks or so? It is all right to laugh now, but many of our florists, without bulb flowers, would simply have had to stop business in the month preceding the sun's again shining, or in other words, during the last half of January and part of February. I am a great admirer of bulb stock, and as far as I can influence you towards it I am trying to do so. For the splendid way in which this class of flowers carried us through the almost absolutely sunless time from before Christmas until a few short weeks ago, should forever place in the highest estimation everything that goes by the name of Dutch bulbs.

In this connection, a reminding word to call to your attention the yearly increasing sales of Holland bulbs, that season after season are taking place to planters, may not be unappreciated. The past two autumns, especially, has seen such enormous quantities of Dutch bulbs ordered from our seedsmen that towards the end of the seasons, and quite a few weeks before the ground has frozen, for the winter, it has been necessary to return money to customers, with the notification that bulb stocks were exhausted. In comparison with this state of affairs cast your thoughts back with me, say ten, yes, twenty years, and bring to your mind the number and value of Dutch bulbs that were imported by even the largest firms at that time—do you remember the first bulb catalogue? Compare it with those of last autumn. But, I feel that I have already taken up enough valuable space. I am a firm believer in Dutch bulbs, and I am sure all their friends will pardon what may seem perhaps an unwarranted plea in their favor. Sometimes I try to look ahead and wonder if the consumption of bulbs will develop and increase during the next decade as it has during the past—but the problem will answer itself as time goes on, and I think favorably. Dutch bulbs are no longer a side issue—a filler in—but one of the greatest factors in the seed trade of America today.

Chasman Payne

(To be continued.)

M. B. Fayon

The Pergola in English Gardens

The pergola, that until a few years ago was associated in the minds of most with a garden in sunny Italy, where the vines that clothe its pillars are laden with luscious grapes in their season and the roses that deck its masonry bloom the winter through, filling the garden with rich color, and lading the soft



breezes with scent, is now an institution in English gardens throughout the length and breadth of the land. In this country, however, the term pergola is applied to structures that in the land which is its home would hardly be tolerated. The possessor of a garden, no matter how small it is, is almost certain, sooner or later, to span a walk with a series of arches of larch or oak or possibly some far less satisfactory sort of wood and immediately upon the conclusion of the work will dub it "pergola."

But how different a thing this is from the Italian pergola with square pillars of solid masonry and a roof of stout oak beams, where the planting is done with a light hand that the beauty of the pergola itself may not be hidden. There are of course some fine examples of the Italian pergola in this country and planted with a proper knowledge of how the work should be done. The accompanying illustration gives an excellent idea of the pergola as it is constructed in most English gardens today. It is, of course, far less expensive when made of wood than when built of stone and when stout poles are used and carefully arranged the pergola, while not such a noble and dignified structure as the word was formerly understood to designate, is infinitely superior to those pieces of arches, sometimes built of flimsy wood, sometimes of iron uprights connected by chains which are frequently to be seen in English gardens. Made of stout posts of larch or oak, and strongly built as shown in the photograph, a pergola will last for years and never looks paltry. There is no doubt that it is in this form that the pergola will be found in most English gardens of the future. The paved path beneath, fringed on either side by a narrow verge of grass, with a border behind this in which lavender, rosemary and other old-fashioned plants are growing, gives an additional charm to the scene. This paved

path offers a splendid opportunity for growing miniature plants in the cracks between the stones, if, as should be the case, the path is laid without the use of cement. The violet cress (*Ionopsidium acaule*) is a charming little annual suitable for this purpose.

In most English gardens the pergola is given up chiefly to the

many beautiful varieties of the rose now to be had, but the one shown in the illustration was planted differently. Some of the handsome large-leaved vines, such as *Vitis Coignetiae* and others, the purple flowered *Clematis Jackmanni* (still in lovely bloom where the vines take on their rich autumnal color), honeysuckle. *Polygonum Baldschuanicum* and other climbing plants were used. Hollyhocks are shown in the border beneath and these stately plants are quite suitable for this position, although not nearly so beautiful as the Madonna lily (*Lilium candidum*) which is a feature beneath the pergolas in some Italian gardens, and makes an exceptionally charming picture.

Harry H. Thomas

MONTH OF GIFTS AND HOPE.

The stormy March is come at last,
With wind, and cloud, and changing skies,
I hear the rushing of the blast
That through the snowy valley flies.

Ah, passing few are they who speak,
Wild, stormy month! in praise of thee!
Yet, though thy winds are loud and bleak,
Thou art a welcome month to me.

For thou to northern lands again
The glad and glorious sun dost bring,
And thou hast join'd the gentle train,
And wear'st the gentle name of Spring.

And in thy reign of blast and storm
Smiles many a long bright sunny day,
When the changed winds are soft and warm,
And heaven puts on the blue of May.

Then sing along the gushing rills,
And the full springs, from frost set free,
That brightly leaping down the hills,
Are just set out to meet the sea.

Thou bring'st the hope of those calm skies,
And that soft time of sunny showers,
When the wide bloom on earth that lies
Seems of a brighter world than ours.

William Cullen Bryant.

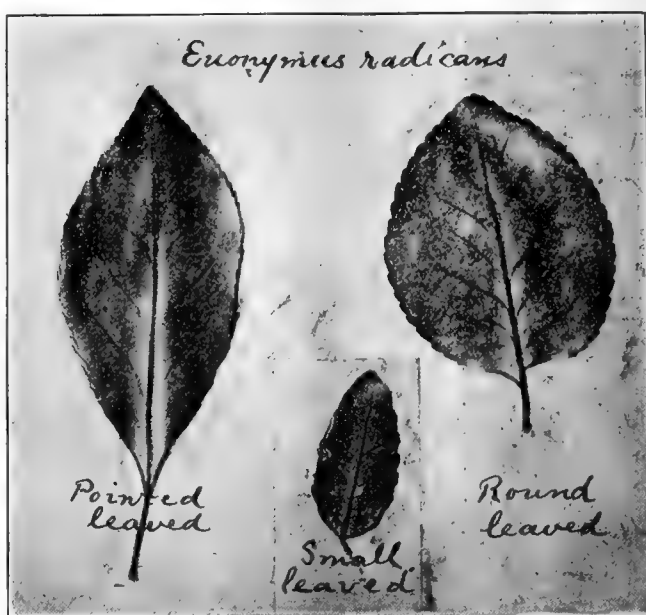
Different Forms of *Euonymus radicans*

From time to time the horticultural press has of late made favorable mention of *Euonymus radicans*, and I quite agree with the writers concerning its value. I feel, however, that there is a need among gardeners and others for more precise knowledge concerning the different forms of this plant, and their behavior or development under given conditions. I must admit that I am considerably at sea myself and am looking for further information.

There are at least three distinct, green forms of *Euonymus* any one or all of which a person is liable to get when ordering *Euonymus radicans*, and they can be seen in nurseries, mixed, in one block, the nurseryman himself sometimes not suspecting that there is more than one variety. Following is a partial description of these three forms and the names under which, for want of a better nomenclature, they are sometimes referred to by nurserymen and gardeners.

(a) The "small-leaved" variety. The leaves of this variety are about an inch long and about half an inch wide, and very short stemmed. The veins are conspicuously white. When growing free, that is without anything to climb on, its shoots come together in characteristic pyramidal bundles bracing each other up back to back as it were. In this state I have never seen it more than two or three feet high. Climbing on a wall, chimney, etc., it attains a much greater height, and also, it is said, changes in appearance and character quite remarkably and produces the next described variety. For some time I was inclined to doubt statements to this effect, but recent observations have led me to believe that frequently, if not usually, the above described transformation actually does take place. However, I cannot remember ever having seen a plant which had nothing to climb on change, and I am also quite sure that I have seen old climbing plants which did not change. Until the change takes place this variety clings very closely to what it climbs on, almost as though the leaves were individually pasted down, and in the winter has a rather dingy gray green disappointing effect. It fruits sparingly if at all. To my mind it is the poorest of all the three forms, and comparatively worthless.

(b) The "pointed-leaved" variety. The leaves of this variety including the long petioles are, on well developed shoots, of an average length of two and one-half to three inches, and of an average width of one inch, or slightly more, and taper to a point at each end. At the lower end this point gradually merges into the petiole. In the case of the "small-leaved" variety on the other hand the leaves are comparatively blunt at the apex and broadly rounded at the base (ovate) and there is not that gradual transition from leaf blade to petiole. The leaves of the "pointed-leaved" variety are very glossy. When growing without an object to climb on its shoots



do not gather into bundles as described above but spread outward and slightly upward after the manner of the ground juniper (*Juniperus communis*). Used in this way it makes a good ground cover and is an excellent substitute in shady places, and also in open situations, for such a plant as *Taxus canadensis*, being much easier to establish and growing much faster than the latter. One plant will sometimes cover an area ten feet or more in diameter. It is useful in large rockeries. In such cases it should preferably be planted where the roots can find their way into good, fairly deep soil, rather than in a location where the roots would be subjected to summer drought. Climbing, this variety does not have the pasted down appearance of the foregoing described variety, but sends out shoots a foot or more in length free from support. These shoots add to the grace of the vine and yet do not make it look ragged and unkempt. Sometimes these shoots are sheared back closely without detriment to the health of the plant. Ordinarily I do not like to see this, as the appearance, then, is very much like that of the "small-leaved" variety. It is this variety which is so desirable a substitute for English ivy, and while it is quite true that frequently it is eventually produced by the "small-leaved" variety in the course of years, there seems to be no good reason to wait for such a lengthy process but that the start should be made at the time of planting by using only such plants as have been propagated by cuttings taken from this variety itself. I think this is the variety referred to in Bailey's *Encyclopaedia* under the name of *Euonymus radicans* var. *Carrieri*. Both the foregoing and this variety produce variegated leaves occasionally. The variegations of the former are apt to be green leaves margined with white and constant; the variegations of the latter are usually irregular blotches of very light yellow, and variable. It produces

considerable fruit but not as much as the next described variety.

(c) The "round leaved" variety. The leaves of this variety including the comparatively short petioles are, on well developed shoots, not stunted by fruiting, about two and one quarter inches long, and about one and a third inches wide, and are oblong in shape; not particularly "round-leaved." In general appearance it is more like the "pointed-leaved" variety than like the "small-leaved" variety. At times it does not seem to cling any too well. It is of rather open habit. It bears fruit abundantly, which is very conspicuous and decorative in winter; even at this time of writing, the end of Febru-

ary. The seed of any of these forms is said to produce plants of the small-leaved type. At one time botanists talked of classifying all these forms with the species *Japonicus*.

Should you find space in your columns for this communication I hope that some of your correspondents who have had experience with this plant will be able to show further light on the subject.

Chas. J. Kochler

Ornamental Conifers

The trees we went over in recent articles belong to the *Abietineæ* tribe of the *Coniferae* family. Next in order come *Taxodineæ* and *Araucarineæ*, two tribes in which are found the most curious and also the most gigantic trees among the conifers. Unfortunately most of them are not hardy in our northeastern states. One of the most interesting is the Japanese umbrella pine, *Sciadopitys verticillata* which looks quite different from any other conifer in its habit of growing, and in the circular arrangement of its long glossy needles. It is a very hardy tree and very useful for outside decoration; big specimens can not be seen in this country as it is relatively of recent introduction but is growing to a nice compact pyramidal tree. In Japan it is said the old trees sometimes are one hundred feet high, when they lose their lower branches, retaining fir like pyramidal form on top of a straight trunk and can be seen from afar looming up over the surrounding trees.

Taxodium distichum, the southern swamp cypress, is a very useful timber as well as ornamental tree. The young trees are generally pyramidal in form and grow to a great height before they spread out their branches. The leaves, which are deciduous, are very finely divided in the shape of a mimosa leaf of a light green color. This can be grown anywhere but its natural place is the edge of a brook or lake. There they produce, when old enough, what are called "knees" which are very interesting, ovate formed, excrescences from the roots, which in their natural state grow sometimes two feet above the ground. In cultivation they are much smaller, and generally make a border to the edge of the water. There are a few natural forms in cultivation; the most distinct is *T. d. pendula*, a small tree of drooping habit.

Glyptostrobus (*Taxodium*) *heterophylla* is a little Chinese tree, not quite as hardy as the bald cypress. The young shoots sometimes freeze back. It has the same habit of growth, with smaller leaf.

Cryptomeria japonica. The long pendulous shoots thickly clothed with short needles make this look a very attractive tree. In general aspect some of the

cryptomeria are not unlike *Wellingtonia*, the "big tree" of California. The shoots are coarser and the branches more apart. In Japan it grows to a big tree of pyramidal outlines. It likes a good deep soil and substantial shelter against north wind, for it is quite tender and will not grow everywhere. There are some very interesting forms imported from Japan; some are dwarfer than the type, with long twisted or pendulous shoots; some grow very compact with short needles and others have the young shoots colored white, making a beautiful effect, but they are all tender. *C. j. Lobbi* (*viridis*) which is of European origin is the hardiest and looks much like the type with thinner shoots of a light green color. *C. j. elegans*, one of the nicest, is not hardy.

Sequoia sempervirens and *S. (Wellingtonia) gigantea*, the big tree of California, can only be mentioned here as belonging to that tribe; we are not fortunate enough to grow these wonders of the vegetable kingdom in New England; we lost all those we had.

Athrotaxis, *lycopodium*-looking little trees from the mountains of Tasmania, have to be mentioned here also as not hardy.

Araucaria imbricata from the Andes of Peru and Chili is the only one of that genus which can be grown in temperate countries, but I do not think farther north than Washington. What a curious and beautiful tree it makes in England and Ireland. We have to give it up. We have one about 15 feet high, but have to build a frame house over it in winter. About the same kind of a tree in appearance is the following.

Cunninghamia sinensis, also called *Pinus lanceolata*, from China. A little while ago *Park and Cemetery* spoke of some specimens in Delaware and Alabama but we cannot grow them.

Am. Dutham

(The next article will be on *Cupressineæ*.)

HORTICULTURE

VOL. V

MARCH 23, 1907

NO. 12

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 05

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.
Discounts on Contracts for consecutive insertions, as follows:
One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;
six months (26 times) 20 per cent.; one year (52 times) 30 per cent.
Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

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A patriotic act

Among the wise and patriotic acts of President Roosevelt none are more to his credit or more to the best interests of the country than his recent proclamation, creating 17,000,000 acres of additional forest reserves. The narrow-minded, unexcusable truculency of certain senators in the interest of land grabbers and lumber syndicates has been checkmated and the President's action will have the hearty approval of all good citizens.

Our friends the wholesale florists

Again we have the pleasure of directing attention to the enterprising spirit so well displayed by our cut flower advertisers in our Easter number. No department of commercial horticulture calls for greater business sagacity and it is not surprising that the ranks of the commission flower dealers have furnished some of the most eminent leaders in club and society work. We commend them with confidence to all in need of flower material for the great spring floral event which we sincerely hope will fully compensate in volume for the disappointing season just experienced.

Easter greeting

HORTICULTURE extends herewith an Easter greeting to its readers. May the spring time now dawning after a winter which in many sections of our country will be long remembered as the severest ever experienced bring to all a volume of business also unprecedented and in all departments of this—the most excellent of man's industries, may fresh enthusiasm, broader vision and greater efficiency prevail. As usual HORTICULTURE's advertising pages present the offers of the most advanced houses in all horticultural lines—those firms which seek to do business with the intelligent and progressive people to whom HORTICULTURE distinctly appeals. We bespeak for these advertisers the patronage which they so well merit.

The national flower show project

The announcement by the chairman of the committee of fifty that he has secured over nine thousand dollars toward the required ten thousand dollar guarantee fund should dissipate all doubt that might have existed as to the certainty of the proposed national flower show at Chicago. This happy realization is indisputably due to the indomitable persistence of chairman Kasting who assumed the arduous undertaking at a time when the first flush of impetuous enthusiasm had worn off and the project had come to a standstill for lack of courageous leadership. The American Rose Society's exhibition now scheduled for Chicago in the spring of 1908 will be a good forerunner and appetizer for the greater affair of the succeeding fall or spring.

The rose society's wise policy

The American Rose Society has good reason to feel proud of its Washington meeting and exhibition. Some disappointment was expressed that the latter was inferior to the display made in Boston last year but attendant circumstances and environment should be considered and, taken all in all, Washington's achievement was most praiseworthy. The result should be extremely gratifying to the officials of

the American Rose Society and to Mr. Bisset and his assistants in the local work, all of whom labored so assiduously on behalf of their respective societies and for the comfort and pleasure of their visitors. The sentiment in favor of professional control of the activities of the American Rose Society is very reassuring and cannot fail to attract to the ranks the increasing support of an element whose loyalty has been well tested in other similar bodies, without whose support both Boston and Washington would have been fatally handicapped. At this juncture the decision to go to Chicago with the next meeting was eminently wise as results will amply demonstrate in due time. We hope that the western rose growers will make a vigorous start at once, cheer and encourage the hard working officials of the society by assuming membership now and taking the preliminary steps to assure an exhibition of unprecedented magnificence at Chicago next spring.

The Tulip Disease and its Treatment

During the last three years some extensive trials have been made on the bulb farm of Messrs. Polman & Mooy, of Haarlem, Holland, with a view to discovering a remedy for tulip disease. These experiences have been based on the researches of Prof. Dr. H. Klebhan of Hamburg, who discovered that the destruction was caused by two distinct forms of fungi—viz.: *Botrytis parasitica* and *Sclerotium tuliparum*. The disease caused by the former shows itself in the spring by the non-appearance or the weakened appearance of the first tulip sprouts. Upon lifting the bulbs there are seen numerous small black fungi, about the size of a pin-head. In the case of *Sclerotium tuliparium* larger dark brown fungi are discovered adhering to the old bulb. The use of disinfectants has had the effect of making the ground unfit for bulb cultivation for some years. The only effectual remedy is to lift out any of the bulbs which show signs of the disease, together with the surrounding soil, and at the earliest possible moment in the spring time ensuing that these are destroyed by burning. It is necessary to cleanse the soil to prevent the disease spreading. The fungi, it has been found, will retain their vitality for at least two years in the ground, and in some places the ground has become so badly infected that it is impossible to cultivate bulbs. This shows the necessity of prompt action being taken at the first indication of the disease on the bulb farm.

W. H. A.

Our Way

to make our publication valuable to the advertising dealers in every branch of the profession is to provide such reading matter as will secure the attention and consideration of the thinking, progressive men who are buyers of first-class material and are able to pay for such.

If you have anything to offer to that class of buyers you can find no medium equal to **HORTICULTURE** for the purpose. Our advertising pages show business houses universally known as leaders in American horticultural enterprise, who have used these columns constantly for the past two years.

They Know Why!

British Horticulture

CAMELLIA CULTURE

In recent years the Camellia in this country has declined in popularity, owing to the rivalry of other blooms. Public taste is very fickle in these matters of floral fashions. Market florists have certainly felt the change in fashion, for the demand and prices are smaller now than was the case some years ago. The largest trade collection of the camellia is to be found at the Royal Nurseries, Waltham Cross, belonging to Messrs. Wm. Paul & Son, who are also famous as rosarians. The newer addition to their collection includes Beauty of Waltham, of a flesh-colored tint, with five petals and shapely form. This has been awarded three first-class certificates and an award of merit. Duchess of Teck is of a bright, satiny rose pink with faint red veins along the margins of the segments. The best of the bunch is undoubtedly Pride of Waltham; the bold blooms are of a pure soft tint. The Duchess is of a rich, rosy-pink color, the centres being shaded with salmon. One charm of the camellia here is its hardiness. At the old gardens at Chiswick belonging to the Royal Horticultural Society there was a collection in the open air which flourished. These were grown in bush form, came as high as 12 feet, behind a wall and facing the north.

GARDENERS' COMMISSION

In the past the custom has largely prevailed of the British nurserymen and seedsmen giving a bonus or commission to gardeners, based on the amount of the order received from the employer. This custom lent itself to considerable abuse by unscrupulous persons, but as the gardeners expected this gift firms who desired to secure custom had no other alternative than to follow the lead of their competitors. The new Act of Parliament prohibiting the payment of these commissions was passed with the object of preventing dishonesty amongst employes, and for the purpose of raising the standard of commercial morality. The members of the Horticultural Trades' Association of Great Britain, comprising the leading nursery and seed houses, are now pledged not to pay secret commissions of any kind. Their efforts to promote a better form of trading, however, is somewhat hampered by the action of certain continental firms, who in defiance of the new enactment are offering commissions to gardeners. The Association have issued a warning to the employes not to accept the illegal offer. Gardeners who as a body are not too well paid, are disappointed at the loss of these annual presents. There is also some dissatisfaction amongst the purchasers that although the trade are saving the commissions they are making no reduction in the price of their wares.

W. H. Adsett.

NEWS OF THE CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

Carnations furnished the theme for consideration at the March meeting of this club which took place on Tuesday evening, 19th inst. There were on exhibition vases of superb flowers among which the following may be named as excellent. Scarlet seedling 405 from E. A. Wood; this fine variety was described recently in these columns. Evangeline, Beacon and Alma Ward from Peter Fisher, Afterglow from Wm. Nicholson, White Enchantress and Winsor from F. R. Pierson Co., vase of seedlings from H. A. Stevens Co., Bay State from A. Roper. This grand novelty attracted much attention. In addition there were Scarlet Conical radish and lettuce from W. W. Rawson & Co., the lettuce having been grown under electricity. A large collection of Zvolanek's winter-flowering sweet peas from William Sim. Vase of handsome annual larkspurs from W. N. Craig. Each exhibitor was called upon to make remarks upon his respective exhibit. Speaking of Winsor Mr. Pierson said that this variety had proved distinctively a success as a commercial variety and he was sure it would give very general satisfaction as a standard carnation for rough and ready culture. Buyers, he had noticed, were getting discriminative and looked for good all around qualities rather than just for size. He spoke well of Melody as a market grower.

Mr. Fuld described briefly the method of introducing electricity into the lettuce beds at Rawson's; copper plates 3 ft. by 18 in., buried in the soil receive the current from feed wires at each end of the bed and the electricity passes from one to the other through the entire length, the result being an average gain of three or four days in growth. D. Iliffe showed a revolving plant stand which he is placing on the market.

F. E. Palmer led in the carnation discussion. He proposed Field Culture vs. Indoor Culture as the first topic. He advocated the former because of the abundant food, fresh air, etc., available for the young plants. Peter Fisher took a middle ground, that circumstances and the man have much to do with results in either case and the only way to decide as to merits is to test both methods. The question of space is most important in indoor culture, otherwise indoor culture would be more generally followed because of the precarious weather conditions that field stock must often face. Mr. Pierson held similar views but mentioned the fact that roomy houses, well-ventilated, are essential for indoor culture. Mr. Stevens thought much depended upon the variety under culture.

The Most Important Point at which Breeders Should Aim was the next topic. Mr. Sander's ideal was better flower and shorter stem. Mr. Stewart, appealed for fragrance and Mr. Craig coincided. The Relative Value of High Grade Flowers was also dis-

cussed; Mr. Palmer recommended that breeders give more attention to commercial qualities. Mr. Patten believed that there would always be a call for both high grade and low grade blooms. This topic brought out considerable discussion on the relative value of awards as made by the American Carnation Society upon the basis of exhibition blooms. It was the consensus of opinion that the plan of placing stock of new varieties in various localities for test should be more generally followed and that first class certificates should be given with great caution and only after extended trial. Mr. Pierson said that the main reason new varieties sometimes fall down after introduction is because they had not been submitted to sufficiently critical tests at the outset. Also that introducers should proceed cautiously in order to establish confidence in whatever might be offered under their name.

Mr. Farquhar addressed the meeting on the general summary enlarging upon the desirability of providing some central and universally recognized body to pass upon and give its stamp of approval to meritorious products, a body with which all local clubs and societies should affiliate and expressed his opinion that events are so shaping themselves that the Society of American Florists will ultimately assume a broader field than heretofore and furnish the desired central authority whose seal of approval will carry to prestige the world over, any horticultural product to which it is given.

President Wm. J. Stewart of the S. A. F., being called upon expressed similar views to those of Mr. Farquhar and emphasized as the need of the hour a closer affiliation of all horticultural organizations, using as an illustration action taken by the S. A. F. last week in appealing to the U. S. Interstate Commerce Commission on behalf of New Jersey growers suffering from oppressive express charges.

Mr. Falmer announced the amendment of the Boiler Inspection Bill making its provisions acceptable to the users of steam boilers for greenhouse purposes and was accorded a rising vote of thanks. Jackson Dawson was recommended for honorary membership. The death of N. B. Glass was announced. Secretary Craig recommended an appropriation of \$25.00 for a special premium to be offered at the fall exhibition of the Mass. Horticultural Society. An invitation to visit the plant houses of W. W. Edgar Co. on March 23 was unanimously accepted. It was announced that the April meeting would be ladies' night and would include a banquet.

WASHINGTON CLUB NOTES.

The last regular monthly meeting of the Florists' Club of Washington, prior to the convention, was held March 5, with good attendance. All officers of preceding year were unanimously re-elected, as follows: Peter Bisset, president; Z. D. Blackistone, vice-president; Chas. McCauley, secretary; W. H. Ernest, treasurer; board of directors, Thos. Field, Jos. Freeman, Jr., Jno. Robertson, W. S. Clark and Chas. McCauley.

NEWPORT HORTICULTURAL SOCIETY.

Mr. S. G. Harris, Tarrytown, N. Y., has donated a premium of \$15 for the best collection of roses at the June exhibition. The society, in addition to an unusually large number of premiums for exhibits by gardeners and others, has decided to provide in the schedule liberal premiums for plants, flowers and vegetables grown by school children. Prizes will also be awarded for the best school gardens, the president of the society to be the sole judge of the gardens.

The society voted not to insert the rule forbidding the use of supports for plants in the arrangement of groups, because the enforcement of that rule last year brought in fewer groups, and disappointing results in those put up. D. M.

ST. LOUIS FLORIST CLUB.

The St. Louis Florist Club held its regular monthly meeting on Thursday afternoon of last week. The meeting was very interesting, but the attendance was small, only sixteen responding to the call. The Flower Show committee reported that they were unable to use the \$10,000 guarantee fund, and it was voted to discharge the committee, with thanks for their great efforts in behalf of the club. The club voted to loan the Englemann Botanical Club their tables and vases for their spring flower show, to be held some time in early spring.

It was decided by a full vote that the meeting on April 11th will be the annual rose competition, open only for local growers, and \$50 in prizes will be offered. The trustees will have full charge of same and will request growers of new varieties to send blooms for exhibition.

Instructions were given to Chairman Smith of the trustees to make preparations for some kind of entertainment for the members and their families in order to celebrate the club's 20th anniversary. One hundred dollars was placed at their disposal for expenses.

THE FRENCH GARDENERS' SOCIETY OF LONDON.

This useful and prosperous society recently held its eighteenth annual dinner at the Cafe Royal. A representative company sat down, under the presidency of M. Lageat, Councillor of the Exterior Commerce of France. After dealing with the progress of the society and eulogizing its usefulness M. Lageat referred to France as the garden of Europe and that horticulture had always been patronized there and encouraged by the government. He reminded his fellow countrymen of fruit culture which was now being carried on under more difficult circumstances owing largely to American competition. This was especially noticeable in apples which had not only invaded the English market but also the Paris market. He thought this was a thing many French gardeners should see to.

MORRIS COUNTY (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

One of the most successful meetings this society ever held was that of March 13th. The carnation reigned supreme; there were novelties from abroad and standards from at home. We had roses, sweet peas and cyclamens also.

Dailledouze Bros'. Welcome secured a certificate of merit. F. R. Pierson Company sent Winsor and White Enchantress, previously certificated here. Bassett & Washburn, Hinsdale, Ill., sent two vases of red seedling, No. 20. It got a certificate of merit. John Riemels' Winsome, and red seedling, No. 32, each secured a certificate of merit. Geo. Harvey, Madison, N. Y., had two fine vases, one of them a white seedling of great promise. Alex J. Guttman, N. Y., showed Victory. Geo. H. Hart, gardener to R. D. Foote had three vases of carnations in three varieties. A. Herrington showed Robert Craig, Pink Enchantress, Mrs. M. A. Patten, Enchantress, Jessica and Fiancee at their best.

Other exhibits were rose Aurora from Paul Niehoff, Lehighton, Pa., which received a certificate of merit; rose Queen Beatrice from F. H. Kramer, which also received a certificate of merit; cyclamens from H. B. Vyse, gardener to G. E. Kissell; myosotis and carnations from John Heeremans, gardener to A. R. Whiting; carnations from Samuel Stewart and E. Reagan; carnation Victory and sweet peas from Andrew Kennedy, gardener to Dr. L. D. Ward, and carnation Robert Craig from Wm. Duckham.

We had quite a delegation from outside, among whom were Fred Heeremans, Lenox, Mass.; Harry A. Bunyard, N. Y.; Wm. Ross, Tarrytown; Parker T. Barnes of Doubleday, Page & Co., John Riemels, Woodhaven, L. I.; Joseph A. Manda, Orange, N. J. Three papers on the carnation in as many different aspects were read by Wm. Duckham, Robt. M. Schultz and Percy Herbert. Each received the thanks of the Society after they had answered many questions and discussed several points. Intense interest was manifested in the novelties as they were looked over.

The evening of April 10 will be Rose Night, which ought to prove a drawing card for both members and visitors. We want all the novelties we can get for that occasion, and can undoubtedly depend on the home growers for a creditable display of the standard kinds. Two papers on the rose are to be read, one by David Falconer and one by Andrew Kennedy.

COLUMBUS FLORISTS' CLUB.

The first regular meeting of the month was held last Tuesday evening. President Stephens in the chair, and the secretary being ill, M. B. Faxon served in his place. It gives the writer much pleasure to be able to say, that the display of plants and flowers was by far the best of the season. Messrs. Torrey, Brust, Williams, Meitzmaier, and Monk, who served as the prize committee, made the following awards: To I. D. Siebert for very well-flowered specimen of Mme. Van der Cruyssen azalea, 20 points; R. A. Currie for *Spiraea superba*, 15 points; Murillo tulips from Sherman F. Stephens brought him 15 points; Jacob Reichert

for Kaiser Kroon tulips, 10 points; and A. Wedemeyer 10 points for a *Genista fragrans*.

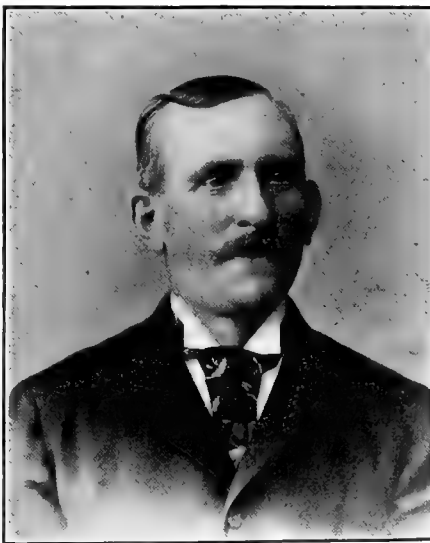
On the question of whether the penny packets of flowers and vegetable seeds shall be distributed free to the public school children or at a penny apiece as last year. A committee was appointed to confer with the Columbus Board of Education. I wish to say that our club is a unit in believing that it is far better for the children that they pay for their seeds.

As had been arranged at the last meeting, this evening had been set aside as ladies' night; so just as soon as we possibly could we closed business, and entertained our guests. The next meeting will be held Tuesday evening March 26.

NORTH SHORE HORTICULTURAL SOCIETY.

This society held its regular meeting on March 15, President McGregor in the chair. J. W. Duncan of Boston gave a very interesting lecture on trees and shrubs. A certificate of merit was awarded James Salter for six pots of antirrhinum, Sutton's White Queen. This is a dwarf variety growing one to two feet in height and suitable for window or conservatory decoration.

Resolutions of sympathy were passed on the death of William J. Griffin. Mr. Griffin was gardener at the C. H. Tweed estate, Beverly Farms. He was a charter member of this society.



JAMES MCGREGOR,
President of the North Shore (Mass.)
Horticultural Society.

The above photograph of President McGregor was taken several years ago. Mr. McGregor is a native of Perth, Scotland. He came to the States in 1871, his first position being at the John L. Gardner estate in Brookline, Mass., under the late C. M. Atkinson. When the Joseph H. White estate at Brookline was laid out, Mr. McGregor went there as head gardener, and remained a number of years. At the present time he is gardener for Miss A. G. Thayer, West Manchester, Mass., moving there, with Miss Thayer, from Brookline eight years ago. He is a charter member of the N. S. H. S., being its first treas-

urer, and occupying that position from 1899 until 1906, when he was elected president, and was re-elected to that office for 1907.

ELBERON HORTICULTURAL SOCIETY.

The regular meeting of this society was held on March 4, vice-president Henry Wood in the chair. The schedule of the second annual flower show, which will be held on July 24 and 25, was drawn up and adopted. Some fine exhibits were staged, notably, stocks Queen Alexandra by A. Bauer; tulips Proserpine and Belle Alliance by J. Kennedy; violets Marie Louise, by A. Greib; violets La France by F. Dettlinger; and carnations by W. Swain. Cauliflower and lettuce were shown by F. Murray.

A delegation of the society visited the F. R. Pierson Co.'s establishment recently. W. F. Ross met them in New York and conducted them to the Florence Hotel, Tarrytown, where an excellent repast was served. After going through the greenhouses there, they enjoyed a sleigh ride to Scarborough. There carnations were seen in every stage of growth and presented a magnificent spectacle. The day was a most enjoyable and profitable one for all.

PENNSYLVANIA HORTICULTURAL SOCIETY.

The special feature of the monthly meeting on the 19th inst., was the address by W. Kleinheinz, gardener for P. A. B. Widener, "An American Gardener's Winter Trip to Europe." This was well received and was tendered the thanks of the society. H. L. Frost made some interesting remarks on "tree surgery"—a popular phrase for correct methods in pruning trees. Samuel Batcheler showed some very well grown Enchantress carnations, some of them averaging 4 1-2 inches. The spring show which opens on the 26th inst. was a live topic. The price of admission has been reduced to 25c. and it was voted to invite the school children during suitable hours so as to plant the seed that will bear fruit in days to come. Among out of town visitors were Mr. Craw of the Lord & Burnham Co. and Mr. Lautenschlager of Kroeschell Bros. Co.

DAYTON FLORISTS' CLUB.

At the last meeting of the Dayton Florists' Club, G. W. Bartholomew was elected president; F. W. Ritter, vice-president; H. H. Ritter, treasurer, and H. M. Frank, secretary. At a previous special meeting, parks were discussed, and a great deal of valuable information received from the members. J. B. Heiss and H. Haerlein offered the city their services, free of charge, to draw all plans for the new park system, and also superintend the same under the same conditions for one year. John H. Patterson has brought Mr. Olmsted from Boston to look over the grounds, and with his everlasting generosity for the benefit of our trade has paid the expenses of Mr. Olmsted out of his own pocket, an example well worthy of imitation.

A discussion was had at the last meeting as to the detriment to the trade caused by the fakirs who sell the cullings of the large central mar-

kets for a song, thereby depreciating the value of flowers and really getting the best flower buyers disgusted with the trade. As long as they were standing on the street corners it was not so bad, but since they have opened stores, a different aspect has been put on the matter. A resolution was passed that none of the retailers will patronize, henceforth, those growers selling to such channels.

CLUB AND SOCIETY NOTES.

The Worcester County Horticultural Society held its 65th annual reunion and banquet on the evening of March 13. President O. B. Hadwen was presented with a copper plaque from the members of the society, the presentation speech being made by Chas. W. Wood.

An organization to be known as the Grand Rapids Florists' and Market Gardeners' Club has been formed at Grand Rapids, Mich., with officers as follows: Pres., Henry Smith; vice-pres., Eugene Davis; secy., Edward Freyling; treas., N. B. Stover. Meetings will be held the first and third Monday evenings of each month.

The florists of Springfield, Ill., met at the store of A. C. Brown on March 7 to organize a club, in order that suitable preparations for the meeting of the State Florists' Association in that city, in February, 1908, might be made. Officers were chosen as follows: President, A. C. Brown; vice-president, G. M. Brinkerhoff; secretary, G. W. Jack; treasurer, George Van Horn. A. C. Brown, A. T. Hay and George Van Horn were appointed a committee to draft by-laws, etc.

DURING RECESS.

On Friday evening, March 15, the proceedings connected with the visit of the American Rose Society to Washington were brought to a close with a bowling contest, participated in by the representatives of Philadelphia, Baltimore and Washington, the trophy being a handsome silver cup, donated by the Baltimore Club. Washington won out, as the following scores will show. The ceremony of filling the cup followed, accompanied by a sumptuous feed and "speechifying," by eminent visitors, regardless of the midnight hour:

WASHINGTON.

	1	2	3
Cooke	167	161	155
Shaffer	161	158	188
Simmonds	157	168	151
McLennan	150	155	194
Ernest	122	201	166
	757	843	854

Total—2454.

BALTIMORE.

	1	2	3
McRichmond	144	157	173
Lehr	172	183	137
Boone	136	166	154
Moss	115	125	201
Seybold	178	169	163
	745	800	828

Total—2373.

PHILADELPHIA.

	1	2	3
Graham	169	147	155
Dodds	147	161	176
Shock	144	131	159
Kift	138	155	133
Connor	159	204	174
	757	798	797

Total—2352.

Two more games are to be played, one at Philadelphia and one at Baltimore to decide the permanent ownership of the trophy.

AMERICAN ROSE SOCIETY

THE BANQUET AT WASHINGTON.

After the labors of the exhibition and business sessions it was a delightful experience to the members of the American Rose Society when, on Thursday evening, they were ushered into the lavishly decorated banquet hall of the Arlington hotel, the music of an orchestra adding to the impressiveness of the scene as the party of over one hundred and fifty ladies and gentlemen, members of the Florists' Club of Washington and their guests, took their places at the flower-laden tables.

After the banquet had been served President Bisset extended a cordial welcome and congratulated the Rose Society upon the increasing love for the rose and the growing interest manifested in its cultivation. He then introduced J. R. Freeman as toastmaster, who made a very happy address and called upon Hon. Simon Wolf to respond for "Our Country." At the mention of President Roosevelt all arose and cheered. Mr. Wolf spoke of the glorious privilege accorded every race and every nationality to come and find a home in a free country, a heritage of which we should be proud and transmit with all its blessings to generations yet unborn. All that is grand in sentiment and great in execution is within our reach and the "square deal" is our inalienable birthright.

President Simpson responded for the American Rose Society, which he said was much more than a trade association, its motto being "A bush in every garden, a rose in every home" and which stands for education in the beautiful.

District Commissioner H. B. F. Macfarland was the next speaker, his topic being "Washington the City Beautiful." He spoke eloquently of the rose and its romance, of the American Rose Society as a "League of Beauty" and of the plans for the beautification of the National Capital. He urged that senators and representatives should be encouraged in every act of legislation and appropriation which shall tend to the embellishment of the nation's capital city.

George H. Brown, for half a century connected with the park department of Washington, spoke of park development in the city since the initial work was begun by A. J. Downing, the reclaiming of waste places and the hopeful prospects for the future extension and embellishment of the public grounds.

Prof. E. T. Galloway spoke for the Department of Agriculture, telling of its policy and work in advancing the agricultural and horticultural welfare of the country and the enormous development of the trade on many lines within the past twenty years.

Patrick O'Mara responded for the gardener and his work for the rose. He said that the gardener, with his big heart and clear head, is the Atlas who bears the horticulture of the world on his shoulders. The real gardener, he declared, is not honored enough. There is glory in his title and no happier man treads God's footstool than the successful gardener, satisfied with his position. He paid tribute to M. H. Walsh, James Comley,

W. A. Manda, E. G. Hill and others for their services to the rose and took occasion to make gallant allusion to the presence of the ladies on this occasion.

W. R. Smith received an ovation as he arose to respond to the toast of "The Past, Present and Future of Horticulture." Flowers, he said, were made for the service of the soul and the gardener does the work. He was proud of the title of gardener.

President Wm. J. Stewart responded for "Our Parent Society, the S. A. F." The speaker extended to the American Rose Society and the Florists' Club of Washington the congratulations of the parent society on the success of this event. He said that during the preceding days the executive officers of the S. A. F. had been busily engaged in planning for the coming year of the Society's activities and endeavoring to carry out the maternal instincts of the "parent" society in endeavoring to bring about closer fraternal relations between all members of the great family of horticultural bodies, to broaden its scope and enlarge its influence and usefulness. He referred to W. R. Smith's appellation of "New Hub of the Universe" as given to Washington and expressed gratification that Washington had shown so much wisdom in imitating the example set by Boston—the real "Hub of the Universe" in bringing in the ladies to enjoy the banquet.

W. F. Gude spoke to the toast of "Our Guests." He advocated unity in all things and expressed sincere sentiments of love and friendship for the guests, hoping that the memory of this occasion may last as long as life for all who participated.

"The Ladies" was the toast assigned to Robert Craig and that eloquent speaker did full justice to the inspiring theme, which, he declared to be the most important toast that can be proposed on any occasion, at any time, in any language or in any country. His word picture of the scene in Eden when the first gardener lost his job will not be soon forgotten by those who listened to it.

E. G. Hill entertained the audience with some amusing stories and submitted that two features of the affair had struck him as remarkable, viz.: Mr. O'Mara's tribute to the ladies and Mr. Craig's knowledge of Scripture. Robert Kift then sung some new verses recently added to his song "It all goes into sash." W. H. Elliott and Benj. Hammond spoke in praise of the work and the hospitality of the local organization and with votes of thanks and Auld Lang Syne adjournment was reached long past the midnight hour.

ADDITIONAL EXHIBITION NOTES.

The group of rambler roses from M. H. Walsh was, as in Boston last year, the sensational feature of the exhibition. Besides the better known favorites originating with Mr. Walsh there were Coquina, Delight, Babette, Le Fiamma, Paradise Excelsa a heavy trussed double pink, Red Riding Hood a dark crimson, and Galaxy a superb rich double pink with long trusses of bloom.

W. A. Manda staged a group of new

Group of Rose Society Visitors at Washington



and rare plants, notable among which were *Asparagus elongata* in bloom, *Lycaste Mandiana* and other interesting novelties. Lager & Hurrell displayed a collection of rare orchids and Ed. S. Schmid aquatic plants in variety.

The decoration of the exhibition hall and the banquet room by George C. Shaffer was a striking demonstration of that gentleman's artistic abilities.

The mantel decoration on the first day by Z. D. Blackistone with roses and ferns and on the second day by F. R. Pierson Co., with Winsor carnations was one of the most admired features of the exhibition, the latter repeating the pronounced success made at Toronto. As a decorative flower in such work, associated with delicate ferns and asparagus Winsor is unexcelled as its color is equally effective and satisfactory under any kind of light.

At the close of the banquet at the Arlington Hotel, Peter Bisset the raiser of the rose Queen Beatrice made announcement that the story circulated publicly to the effect that he had received \$30,000 from the sale of the rose was false and misleading and that he would not tolerate its repetition. The actual amount paid Mr. Bisset for the stock was very much less; one of the daily papers of the following day stated same to have been \$150.

On the closing evening of the exhibition the cups and other trophies were presented to the winners by Secretary Hammond from the platform in the exhibition hall. Mr. Hammond's remarks were very witty and pertinent as he handed over the articles to their respective owners. At the close president Simpson said a few parting words, expressing gratitude to the hosts of the occasion and hopeful promise for the meeting next year at Chicago.

Louis Freeman was highly complimented on the manner in which he conducted the exhibition as general manager. There were many difficulties in the way and the manner in which they were met and overcome was highly creditable to superintendent Freeman and the good words said of him were well deserved.

LITTLE JOURNEYS BY THE GINGER JAR MAN.

II.

The White House.

Scene: The Rose Show, Washington. A question comes from the speaker's platform. Would we like to shake hands with the president? Everybody seems to be of one mind about that and so, headed by President Bisset and President Simpson we marched about a hundred strong to the White House, passed safely the guardians of the portals and arrived shortly in the East Room, where we had the pleasure of presenting fifty blooms of prize-winning Richmonds to the chief executive of the nation. His astonishment and his keen appreciation of the compliment were both plainly apparent. Evidently most of the people who go to see Theodore go to get something and not to give anything away and so this crowd of flower growers bearing a sample of their best was a new experience.

Robert Craig in his most suave and dulcet tones told the story, the why of our visit and the wherefor of the gift. Bows and smiles from the president who then shakes with Gurney Hill, the raiser of Richmond, and thanks the good Lord that we have some in America who can go those clever foreigners one better and breathe a prayer that all other enter-

and sciences in America may produce Gurney Hills ad. lib. After which we all look to see if our good right fist is clean and pass along the line. Some of us are pretty nervous and worked up. Langjahr looks pale and fidgety and evidently feels like taking a sneak thro' some side door. Heacock who is also well up in the crowd seems to be counting his democratic beads and crossing himself. O'Mara further down the line beams like the morning sun and seems altogether happy and unafraid—a worthy representative of the unterrified democracy of Jersey City. By and by it was Job's turn. Your humble servant of the Ginger Jar was not far behind Job. Well, gentlemen, I am pretty awkward but I hope to goodness I can make a better bow and handshake than Job. Then Phil. came along. I was glad to see that Phil. was just about as flustered as I was and only got half through his remarks when the inexorable sergeant-at-arms pushed him along.

The East room is ginger-colored all through. Ginger colored curtains, ginger colored mirror frames, ginger colored wall paper, ginger colored pianos, ginger colored everything except the two big ginger jars. The latter are blue.

Finally the function was all over and then a photograph of our crowd was taken on the steps of the treasury building.

It was the proudest moment of my life when I shook hands with the ruler of this great republic and an occasion that will long be remembered by me. I am busy now retailing in Philadelphia the hand that shook the hand at a handsome profit but to all the readers of HORTICULTURE it is free. Come on!

GEORGE C. WATSON.

OUT-DOOR ROSE CULTURE.

A paper read before the American Rose Society by Theodore Wirth.

I consider it somewhat presumptuous on my part, to appear before you expert rose growers, and to think that I might be able to say anything that may be new and possibly instructive to you, and I confess, that when I first received our president's request for a paper, I was readily inclined to decline. My eyes, however, took in the letter-head on which Mr. Simpson's invitation was written, and up in the left corner it read:—"A Rose for Every Home, A Bush for every Garden."

Gentlemen, this being the motto of our society, I am with you heart and soul, and I appear before you as a strong advocate of using the society's influence and working organism, to advance out-door rose culture in general and by every available means, and not as a rose grower of special experience and knowledge by whose suggestions and explanations you might profit. Most of you, undoubtedly, are growing roses under glass, and while you take due interest in out-door culture and probably sell plants in planting season and cut flowers during the Month of Roses, still your main business interests are centered in your indoor cultures, in your winter roses which bring you satisfactory pecuniary returns, reward you for your labor, investment, energy and the patient watchful care bestowed upon your plants.

The exhibits in the hall show us your skill, your wonderful achievements of hybridization and cultures and your love for your noble profession; and with you we are proud of your achievements, and with you we enjoy our sojourn amongst those creations of yours,—the roses of mid-winter, while all plant-life outside is dead. But as I look over this splendid display, my thoughts wander ahead, my vision leaves the narrow enclosure of this room, the hall and your hundreds of acres of greenhouses, and my longing lands me in a fairyland, in God's own Paradise, the home of our Queen of Flowers, the Out-Door Rose Garden.

I want you to accompany me on this most pleasurable of all pleasure trips, and I want you to start out early. It is June, the month of roses, and truly the month in which I wish we could hold our convention. The sun is rising on a clear sky, and the dew is on flower, leaf, frond and blade. The atmosphere is refreshing and the birds are jubilant in their renewed joy of life. We enter our garden of well cultivated roses, and God! what a glorious sight. How beautiful are the plants in their perfection of foliage, their abundance of sweet scented, strong, well-built flowers; what a richness and variety of colors and shades, and what a wholesome and refreshing fragrance is in the clear morning air. Reverently we walk along those beds of indescribable beauty, under these arches of drooping bowers of flowers, all glittering and sparkling with the new-born sunshine, reflected in millions of diamond dew drops.

We have met the rose at home in her very best form and beauty, in her modest garb and surroundings; and gentlemen, you will all agree with me that your very best creations of forced culture, be they displayed in the cost-

liest, most luxuriantly furnished apartment of the millionaire's mansion surrounded by priceless art treasures and draperies, are outshone in this garden, and that the wealth with which your coveted products are surrounded is an insignificant factor compared with this garden's draperies and attractive backgrounds of simple but majestic trees, shrubs and vines. The effect of the displays of your creations and products artistically and tastefully arranged with all known arts of decoration is gorgeous, pleasing, fascinating; but the effect of our rose garden in all its simplicity is unsurpassingly sublime.

I suppose I have made myself clear by this time that I am an enthusiast on out-door rose culture, without any attempt to belittle your efforts and achievements as indoor growers and decorators. Indoor rose culture has many advantages over out-door culture, as it has within its reach an unlimited list of varieties and better yet a practically unobstructed field of hybridization. Yet the list of varieties of all classes of roses, available for out-door culture is so large as to satisfy practically all reasonable demands; in fact, it is nearly as much a matter of cleaning out and discarding many that are not worthy of culture because they are superseded by so many betters, as it is to get new varieties.

Thanks to the earnest and successful efforts of the modern hybridizers of both America and Europe, the list of real everblooming roses adapted and hardy for out-door culture is increasing from year to year. I refer to the class of Hybrid teas.

I notice in the last catalogue of Alex. Dickson & sons of Newtownards, Ireland, that out of a list of 82 pedigree seedling roses, 43 are Hybrid teas, 21 Hybrid perpetuals, 9 Teas and 9 Singles. This is but the cream of a numberless list of new seedlings, but many of them, undoubtedly, will prove available for out-door culture. The Hybrid teas are now on comparatively the same epoch of development as were the Hybrid perpetuals some 30 years ago, when the firm of Eugene Verdier of Paris alone, offered between 40 and 50 new hybrids of that class every year from 1872-1880, and the number introduced since then is legion.

The Hybrid tea rose will win for itself recognition and preference, as an out-door rose, the more its hardiness becomes known. It is in reality this class which is entitled to the name "Perpetual Bloomers" in the proper sense of the word. I think that Hybrid-remontant is the proper name for what we call now Hybrid perpetual; for the word "remontant" really means what they do—bloom a second time (once more), but not continually during the season, as do the Hybrid teas, Teas and Polyanthas.

Let us see what we have today amongst the old standbys and newcomers well adapted for out-door culture. I do not claim for all those I mention the title, The Best, for therein we differ according to taste, experience and observation. I simply mention them as varieties with which I have been successful and which seem to me to merit a place in every rose garden whose climatic condition is

congenial to their growth. Every color and shade is represented.

In white and shades we have the following Hybrid Remontants:

Frau Karl Druschki, Mabel Morrison, Marchioness of Londonderry, Margaret Dickson, Mavourneen, Perfection des Blanches, Coquettedes Blanches and Coquettedes Alpes.

Hybrid Teas—Augustine Guinoisseau, Helene Guillot, Kaiserin Augusta Victoria, Mildred Grant, Marquise Jeanne de la Chataigneraye, Souv. de Mme. Eugene Verdier, Maman Cochet.

In red and its many shades we have the following Hybrid Remontants:

Etienne Levet, General Jacqueminot, Gloire de Margottin, Horace Vernet, Jules Margottin, Jubilee, Marie Baumann, Oscar Cordel, Prosper Langier, Reynolds Hole, Robert Duncan, Sultan of Zanzibar, Hybrid Teas—Balduin, Dean Hole, Etoile de France, Ferdinand Jamin, Gruss an Tepitz, Liberty, Rev. David R. Williamson, Richmond, Papa Gontier.

In Rose or pink we find Hybrid Remontants:

American Beauty, Anna de Diesbach, Baroness Rothschild, Baronne Prevost, Clio, Caroline de Sansal, Comtesse Cecile de Chabrillant, Countess of Roseberry, Duchesse de Vallombrosa, Dupuy Jamin, Eugenie Verdier, Heinrich Schultze, Helen Keller, La Reine, Mme. Gabriel Luizet, Magna Charta, Marchioness of Downshire, Marchioness of Dufferin, Marguerite de St. Amande, Marquise de Castellane, Mrs. John Laing, Mrs. R. J. Sharman Crawford, Oakmont, Paul Neyron, Pride of Waltham, Rev. J. B. M. Camm, Susanne Marie Rodocanachi, Victor Verdier, Hybrid Teas—Captain Christy, Caroline Testout, Dr. J. Campbell Hall, Kilmarney, La France, Mme. Abel Chatenay, Maman Cochet, Mrs. W. J. Grant, Reine Marie Henriette, Kate Moulton.

In a class all by themselves we have the Polyantha roses, which in my opinion, are not known and grown enough. I should like to call them the children's roses. They are so easily grown and are the real bedding roses. There are as many as 30 or 40 varieties of easy culture, namely:

Red—La Prosperine, Leonie Lamesch, Liliput, Mme. Norbert Levavasseur, (Baby Rambler), Ma Petite Andree, Pink Souper, Perles des Rouges.

Rose or Pink—Gloire des Polyantha, Ma Fillette, Mlle. Cecile Brunner, Mignonette, Petite Constant, Petite Madeleine, Philippine Lambert, Primula.

White—Annie de Montravel, Bellina Guillot, Clothilde Souper, Flocon de Neige, Josephine Burland, Katherine Zeimet, Marie Pavie, Miniature, Mosella, Paquerette, Princesse Marie Adelaide de Luxembourg, Schneewittchen, Snowball.

Yellow—Etoile d'Or, Etoile de Mai, Emilie Potin, Eugenie Lamesche, Filius Strassheim, Golden Fairy, Le Bourguignon, Perle d'Or, Princess Elizabeth Lancelotti.

The Rugosa family is also becoming more prominent through recent introductions and we have now the following varieties:

Red—Atropurpurea, Mme. Chas. Worth, Mrs. Anthony Waterer, Rugosa rubra, Souv. de Pierre Lepeudrieux.

Rose—Belle Poitevine, Calocarpa, Conrad Ferdinand Meyer, Delicata, Rose Apples.

White—Blanc double de Coubert, Fimbriata, Mme. Georges Bruant, Rugosa alba.

The following Moss roses deserve a place in the garden:

Red—Celina, Crimson Globe.
Rose—Crested, Mme. Moreau.
White—Blanche Moreau, Comtesse de Murinais, Perpetual White, White Bath.

In way of trailers and climbers we have also a large variety representing Hybrid Remontants, Hybrid Teas, Teas, Noisettes, Bourbons, Polyanthas, Mosses, Rugosas, Gallicas, Wichurianas, Hybrid Multifloras, Moschatas and Sempervirens:

Red—Cheshunt Hybrid, H. T.; Climbing Jules Margottin, H. R.; Climbing Papa Gontier, H. T.; Crimson Rambler, Pol.; Euphrosine, Pol.; Hlawatha, H. Wich;

Paul's Carmine Pillar, H. T.; Philadelphia Rambler, Pol.; Reine Marie Henriette, H. T.; Rubin, Pol.

Rose or Pink—Climbing Caroline Testout, H. T.; Climbing Clothilde Soupet, Pol.; Climbing La France, H. T.; Climbing Mme. de Watteville, T.; Climbing Mrs. W. J. Grant, T.; Climbing Souv. de la Malmaison, B.; Climbing Victor Verdier, H. R.; Cumberland Belle, Moss; Dawson, H. Multi.; Debutante, H. Wich.; Dorothy Perkins, H. Wich.; Helene, Pol.; Karissima, H. Wich.; Lady Gay, Pol.; Leuchstern, Pol.; Mme. Berard, T.; Minnehaha, Paradise, Pink Pearl, H. Wich.; Pink Roamer, H. Wich.; Psyche, Pol.; Queen of the Prairies, Setigera.; South Orange Perfection, H. Wich.; Sweetheart, H. Wich.; Universal Favorite, H. Wich.; Wedding Bells, Pol.; Wm. Egan, H. Wich.

White—Almee Vibert, N.; Brunoni fl. pl., Mosch.; Countess of Lieven, Arv.; Gardenia Flora, Pol.; Climbing Kaiserin Augusta Victoria, H. T.; Climbing Niphetos, T.; Mme. Alfred Carriere, H. N.; Manda's Triumph, H. Wich.; Moschata alba, Mosch.; Rampant, Spv.; Schneelicht, Rug.; Splendens, Arv.; Thalia (White Rambler) H. Mf.

Yellow—Gardenia, H. Wich.; Wm. Allen Richardson, N.

While speaking about Climbers, would it not be feasible to bud the Baby Rambler in numbers on the main shoots of the Crimson Rambler or other vigorous climber covering a trellis or arch, and so transform the ordinary Rambler into an everbloomer? I suppose this could be done successfully by relieving the Rambler of its own flowering wood and by renewing the budding yearly on the new wood, which is grown along to replace the old.

No rose garden would be complete without our wild and native roses, and we can use them as an introductory feature in the way of border plantations around the garden. They are: Rosa Alba, Blanda, Canina, Carolineana, Lucida, Multiflora, Nitida, Rubiginosa, Rugosa, Setigera and many others.

The pretty Midget Rose, Rosa multiflora nana, should be freely used for borders along trellises. They are so easily grown from seed, if sown inside as early as February, potted up and planted out in May.

Other miscellaneous garden roses not to be forgotten are:

Soleil d'Or, A. B.; Persian Yellow, A. B.; Harrison's Yellow, A. B.; Austrian Copper, A. B.; York and Lancaster, Gallica; Stanwell's Perpetual, Damask; Cabbage, Centifolia; White Banksian, Banks; Yellow Banksian, Banks; Bennett's Seedling, Ayrshire; Mme. Plantier, Gallica.

Lord Penzance's Sweetbriars Amy Robsart, Annie of Gierstein, Brenda, Catherine Seyton, Edith Bellenden, Flora M'Yor, Green Mantel, Jeannie Deans, Julie Manning, Lady Penzance, Lord Penzance, Lucy Ashton, Lucy Bertram, Meg. Merries, Minna, Rose Bradwardine.

Of all plants deserving special care and attentive culture, the rose, in my mind, is first. I regret that some of our growers and distributors to amateurs should state in their catalogues and guides on rose culture that the necessity of thorough preparation of soil, proper cultivation, etc., is a story of ancient belief, and that roses will grow in any soil, location and condition.

They will grow, yes, but will they flourish? Do not let us deceive and disappoint the lovers of roses for the sake of making easy money, for it is unjust and does not pay in the end, for one disappointed customer will discourage many prospective buyers, while every successful amateur rose grower will induce and instruct all his friends and neighbors. Let us tell the

people that the rose is a great feeder and delights in a heavy loamy soil enriched by cow manure, and let us ask them to prepare their beds before planting, to a proper depth, provide the necessary drainage, if necessary, that thorough cultivation is better than continuous watering and sprinkling; in short, give them the information that will make them expert rose growers and we will make them happy and our friends forever. The real lover of roses will not shrink from the expense and labor involved in such culture and his success will convert others.

The very growers who advocate the planting the roses in any old way seem to have to go away from home to find subjects fit for illustrations in their catalogues, intended to show good rose culture. Good rose culture, however, means good deep loam, renewed fertilization of well decomposed manure properly applied, frequent cultivation and appropriate watering at the proper time, etc. This is the treatment of the soil to which the building up and sustaining of the root system of the plant is entrusted.

The part of the plant above ground demands equal attention. Beginning in spring we must induce and balance the growth of the flowering wood, by proper pruning, and to do this properly we must consider the habit, character and strength of the plants. Vigorous Hybrid Remontants we should relieve of all weak and superfluous wood, being satisfied with from 6 to 8 main shoots to a plant, and those we must cut back to from 5 to 7 eyes. Weaker plants we must prune more severely yet, cutting back to 3 or 4 eyes. The Hybrid Teas, which do better in not too heavy a soil, we must relieve of all weak and dead wood, and cut the remainder back 1-4 to 1-3 of their length. Teas and Polyanthas, of course, we won't cut back at all except to remove old and dead wood, with the object in view to keep the plant vigorous by inducing and favoring a certain percentage of young growth.

During the flowering season we must constantly be on the watch. Fading flowers should be picked off every day and that before they drop all their petals. We can procure a second, and with some varieties of the Remontants, an almost continuous crop of flowers, by pruning past flowering shoots radically back to 6 or 8 eyes during the summer season.

We must supply the necessary atmospheric moisture to our plants by a thorough syringing from below, applied after sundown; a treatment to which the rose readily responds during dry weather. Such sprinkling, furthermore, at least partly overcomes the minor insect pests, such as the aphid, red spider and rose hopper. We must closely watch for the arch enemy of the rose, the chafer, and pick him off for his kerosene bath, while we have to crush the leaf-roller with unrelenting energy and thoroughness. Slugshot, hellebore, bordeaux mixture, whale-oil soap and similar remedies must be on hand for ready use for other pests, mildew and other diseases and must be applied in good season and effective manner.

For the over wintering of our roses we must take due precaution by pro-

viding the necessary cover. The most effective, in fact the only satisfactory method, is to tie the shoots together and heap up the soil around the rootstock as high as possible, and if the plants are properly distanced, namely 2 feet to 2 feet 6 inches for the H. R. and 16 to 20 inches for the H. T., such heaping is entirely feasible. Then after frost has set in, put in a good covering of manure around those hills and ordinary bedding or litter between them. In spring remove the bedding, pull the manure down between the hills, rake your soil over it and do your pruning as soon as the eyes begin to break.

Standard roses I think are most successfully grown by lifting them every fall and burying them in 18 in. or more of soil. Better yet have them in small tubs and bury tub and all. Climbers can be bent down and buried in the ground. By this method the bark is however easily cracked if not very carefully handled, and the result is the loss of many of the main shoots. Thorough binding up in long straw with outside paper cover, therefore, seems the most advisable cover for climbers in need of such protection.

Where the winter is not too severe, I consider fall planting preferable to spring planting provided the planting is done in good season and not later than November 15th. There in short are the general cultural directions under which I have seen the happiest results in the rigid climate of the east, Connecticut for instance.

To us all these matters of culture are a matter of course, but for the amateur they are perplexing to begin with but should not be discouraging. No one today hesitates to acquire an automobile, not knowing the least thing about its mechanism or underlying principles of locomotion. To begin with he or she will be puzzled, but as gradually through experience and study the mechanism and working principles of the machine explain themselves, the amateur chauffeur becomes the self-confident master of this complicated creation of the professional machinist, and he not only runs the machine but attends to ordinary repairs and before long has some suggestions to make for improvements. Why should the same amount of intelligence not be able to solve the so much easier problems of competent and sensible rose culture.

For instance, there is quite a difference of opinion as to the relative value of budded or grafted plants and plants on their own roots. I think we most all agree that budded plants are giving much better results as to vigor of growth and quality of bloom, but we realize that the average amateur grower may be better served with plants on their own roots, because there will be no danger of his losing his flowering plant through the unrecognized or unnoticed growth of wild suckers.

Now I think we ought to at least give our friends, the customers, credit for ordinary intelligence, by telling them that if they will compare the foliage of a wild rose with that of a hybrid, they will soon learn to distinguish between a sucker and the real thing; and they will understand that by diligently removing the former

they will have the very best results with the latter. Ardent lovers of flowers will be glad to learn that. For those who are too busy or don't care, the own root plants I admit may be better, but I believe it is only fair to state to the amateur the difference between the two.

If the roses are budded low, the stock eyes removed before planting and the roses planted good and deep, comparatively little sucker trouble will be encountered, and I for one shall want budded plants wherever I have something to say in this matter of choice.

The planting of one year roses, which if not especially advocated is at least widely advertised, is all right as far as it goes, but it must to a certain extent be misleading and disappointing to many amateur rose growers. The offer of one dozen rose plants for \$1.00 guaranteed to bloom the first year from June to October is certainly very attractive and tempting, but if this one dollar is the extent of the available funds for such investment, I would advise my customer to take 4 or 6 two-year old budded plants, plant them wider apart, be satisfied with a few flowers the first year and get the benefit of better and more blooms forever afterward.

The one-year old plants, which have been planted close, will, if they grow, crowd each other in no time and consequently should be transplanted the second or third year at the latest, which in most cases is not done. If they don't grow it is because the soil to which they have been transferred out of the pots is not congenial, and the plant in itself is not of sufficient vigorous stock to overcome this change of soil texture and quality. Yet the buyer has planted them as directed—in any ordinary soil. The two-year old plant will fare better and give much more return in every case.

Before I leave the subject of one-year old plants I want to ask the question whether it is not a fact that those plants on their own roots are mostly winter cuttings from more or less continually forced stock, and some of them second cuttings from rooted cuttings in the bench? If so, can it be reasonably expected that plants so produced will attain the vigor, productive quality and sustaining strength and hardiness so essential to outdoor culture? If not, is it not more or less a fraud on the public justifying the saying, "Cheap cloth, tools or help are too dear at any price." I claim that all own-root roses intended for outdoor culture should come from soft or hardwood cuttings from outdoor plants. I say, propagate from good stock and offer good stock if you want to grow good roses and satisfy and retain your customers.

As already stated, I am not an expert rose grower and don't pretend to be, but I believe that here as elsewhere the underlying principle in securing good results, is good structural foundation. It is so evident that propagation from continuously forced plant stock and through too soft-wood means degeneration and deterioration of quality and strength that I need not dwell on this subject any longer. The best proof of this statement is the rapid degeneration of so many varieties used for forcing for a period of

ten or even less years, compared with the same varieties grown outdoors and propagated from outdoor plants. There is one thing the buyer of budded plants is pretty sure of, and that is he need not fear to get in his purchased plants, the weak degenerated blood which he is apt to get by buying own root plants, and so-called slips.

To discuss such matters is the principal purpose of our gatherings. The question has been put by our Executive Committee, "What can the A. R. S. do to help the lovers of roses and the members of the society?" There are many ways of accomplishing the same purpose, provided said purpose is clearly defined and understood. To benefit the lover and amateur grower of roses, we must reach him outdoors. We must stimulate and advocate outdoor culture, and educate those we reach with our pleas. To benefit the amateur means to benefit the growers.

To encourage outdoor rose culture, I would suggest that we work along the following lines:

1. Suggest and advocate through our trade papers and through all other possible means the introduction of public rose gardens in public parks; not only in the large cities, but everywhere. Such gardens could be inaugurated and helped along through donations of plants by local growers and dealers, and where the experienced gardener is missing, help along this line might be furnished through the same sources.

2. Let the florist clubs and other kindred societies of the country arrange for free lectures, giving the public plain, true and comprehensive instruction and information on the subject, and have, if possible, a rose show connected with the lecture.

3. Let each rose grower or nurseryman establish a small rose garden in which he practises good culture; let him arrange for a rose show of his own and invite his customers near and far to his grounds when the plants are at their best.

4. Let the A. R. S. direct, or through local florists' clubs award prizes in medals or certificates to amateur rose growers for good cultures.

5. Would it be possible for the A. R. S. to establish somewhere in the Middle States in connection with a Horticultural College or a reputable commercial establishment, an experiment station or trial ground, where new introductions could be tested to their true value from all points.

6. Would it be possible to have in that case a semi-annual convention at that trial garden, or could not at least a standing committee on novelties or the Executive Committee meet there every year in June to pass judgment on such plants as may be on exhibition there, and would not such reports be of great value to the grower as well as the amateur?

These are questions and ideas that have occurred to me during my services as a park-man for the last few years, and I beg to submit them to you for consideration and discussion. I know that every rose successfully planted and grown brings roses, smiles and happiness to some heart and makes it better, and I love to work with you all as a gardener in this garden of usefulness and uplifting happiness.

AN IDEAL IN ROSE RAISING.

A paper read before the American Rose Society by E. G. Hill.

Your president and executive committee have suggested as a subject for my paper "The advisability of having an ideal in mind when attempting to raise new and improved varieties of roses."

It would have been better if you had selected some one to prepare this paper who has had a broader and more extended experience bearing upon this particular line of work than myself; it is a subject full of interest, of mystery and of elusive leadings, and of which I am free to confess I have very little exact knowledge. The more I have tried to inquire into the laws governing cross-fertilization the more surprised I have been at the very little tangible knowledge possessed by plant growers, for it would seem that after generations of attempts at crossing that we should find much more accurate information at hand, and at least a few formulas which might be followed with some certainty.

These, however, are not yet at hand, but that is no occasion for discouragement, for of one thing I am convinced, there are underlying laws which guide to certain results, and while at present we are only groping toward them in the dark, patient persistence will finally give us our working theorem which will prevent the present waste of utterly haphazard effort, and reduce it to a science and an art at least approaching the exact. Nature does finally reward the painstaking investigator, and she does reveal enough concerning her manners and methods to give incentive to those who would know her better.

I should say, by all means, have an ideal in mind when attempting the production of a new variety of rose through the medium of cross-fertilization. In fact, the ideal is persistently forced upon the working florist by the very shortcomings of his every-day favorites; the amateur may please his fancy, and delight himself with the odd and curious results of haphazard work, and there is much pure pleasure to be derived from it; but the florist, with all his love and reverence for the beautiful in nature, has a sterner purpose in view; the rose has descended to commercialism; the rose grower must raise it to a pinnacle of perfection where it can dominate its special line of commerce, without apology for any weakness. And it must be confessed at the present time that the usefulness and the profit of nearly every variety of commercial rose is greatly impaired by some serious drawback to its reliability; to eradicate these faults in the parent is impossible; to produce a seedling that shall retain the good points of the parent with the weakness eliminated is well worth working for; this, then, forms an ideal; definiteness of purpose in any line of activity is essential to results; and quite as important as the ideal, is the working plan which must be formulated to attain the end in view.

Some years ago I began working on red roses, hoping to secure something better than Meteor, Teplitz and Litta, all fine in their way, though stubborn material in the hands of the rose-fancier; my initial work was begun with these varieties, and only after a good lapse of time have results been

forthcoming. The purpose in view was first to secure a vigorous constitution in the progeny; that must always be first; seedlings showing exceptional vigor have again been bred with Liberty, Richmond, American Beauty, Queen of Edgely, American Beauty best H. P.'s. My aim has been in this particular line of work to secure a red rose that would flower freely under glass in winter; furthering this idea of improving the red varieties, pollen was taken from American Beauty and over 300 crosses were successfully made last year (1906) and these latest seedlings are now nice little plants growing vigorously in their little pots. My hope in thus securing American Beauty pollen is to secure if possible a long stemmed, free blooming winter forcing variety; a previous effort in this line has given us a rose superior in color and size to American Beauty with the additional advantage of producing flowers as freely as Richmond or Bridesmaid.

Quite a separate line of crossing has been to improve upon the size of Rosalind Orr English while retaining its general color scheme; with this in view hundreds of crosses have been made with pollen taken from Richmond, Queen of Edgely, American Beauty and Paul Neyron during the season of 1905; the progeny from these have mostly flowered, with a result that some thirty have been retained for a second year's trial; two out of the thirty selected are of unusual promise; one of these is American Beauty X. Rosalind Orr English, and is especially notable for its stiff, long stem and large size; the other cross is Richmond X. Rosalind Orr English which is intermediate in color between its two parents with the additional merit of possessing double the number of petals that either of its parents possess. The above two instances are cited to show concentrated effort on a given line in a multiplicity of crosses. I give the above in detail to illustrate my conviction of having an ideal in mind when working for a given end. Perhaps some day we will find a means to the end desired by simply making one direct cross.

I do not know to a certainty, yet I believe that Mr. Joseph Pernet, of Lyons, has followed out a similar certain line in his raising of new varieties; I judge this by the similarity in growth, foliage, and the general build of the flowers in his originations. Take Pres. Carnot and Antoine Rivoire, note their general characteristics and I think it is easy to detect a similarity of lineage running on down through his Madam Rivary, Le Progres, Joseph Hill, Mme. Jenny Gillemot, Mme. Philip Rivoire, Mme. Melanie Soupert, and Baron Sinety and three of his very latest introductions, Mrs. Aaron Ward, Mme. de Liuze, and Renee Wilmart Urban show the same general characteristics. It would be interesting to know if M. Pernet had been following out Mendel's theory in his breeding of roses. Not all his productions are allied to the varieties mentioned above, for his Etoile de France, Marquis Litta, Soliel d'Or and Laurent Carle are quite distinct from the type cited above.

If the law of inter-breeding be correct, gathering in only pollen from closely related varieties, then the law of heredity as applied to the animal kingdom would not hold good in the

vegetable family. My suggestion would be to follow both lines of work, inter-breeding and promiscuous breeding, if I may thus put it, but always have in mind the design of a given improvement.

Of late my one thought has been to select the most vigorous grower for the mother plant, for without health, vigor and a good constitution the finest new rose is a failure. I am thoroughly convinced by observation and experience that the mother plant has the most to do in giving health, vitality and constitution to the offspring; this being the case, we can see at a glance how important it is to select only the very strongest among the everblooming varieties to serve as the female parent. We should select the pollen from those varieties which have pronounced qualities in the way of color, stem, length of bud and fragrance: If these qualities are present in the male, you may hope that they will have an influence upon your crosses.

With the increased vigor possessed by many of the later productions in Tea and Hy, Tea roses, such as Betty, Pharisae, Killarney, Kate Moulton, and others of like vigor, it need not be many years before a race bred from such parents will give greatly increased vigor over present existing varieties. and with this increased strength of growth, great good will come to the grower.

The infusion of Hybrid Perpetual blood will also have a marked tendency to increase the vigor and growth of seedling roses, and by using the ever-bloomers for the seed bearer, freedom of bloom will in large measure be preserved; it ought not to be many years until the present non-flowering Hybrid Perpetual roses are superseded by a race equally as virile, but which will give continuous bloom. If we get vigor of growth with certainty of bud flowers on the ends of long straight stems, that will be the type that shall give us larger and finer flowers for our winter forcing as well as better varieties for our gardens.

I know that you will say that predictions of this sort are easy to make; but kindly indulge me a little; let us use any means to impress upon the mind of those just taking up this work, that constitution is the foundation upon which all effort must proceed.

A great number of skilled and practiced workmen are enthusiastically bending their best energies toward improving the rose and we are surely making a steady advance in the right direction under such men as the Dicksons, the Pauls, the Souperts, Pernet and others in France, and Peter Lambert and his colleagues in Germany together with Cook, Walsh and others in this country; we have a right to expect even better results than have yet been obtained. Even with the combined efforts put forth by the rosarians in this and other countries progress will appear slow to the impatient workers in our ranks, trifling advance will be noted, but better types and varieties will surely gladden our eyes and hearts for nature has been kind in the past both in bud-variation and by cross fertilization and the coming years will be no less fruitful than the past; we shall improve upon Malmaison, Marechal Niel, Catherine Mermet, Bride, Perle des Jardins, Kaiserin Augusta Victoria, American Beauty, Frau Karl

Druschki, Liberty and the two Cochetts, or at least she will reward us with varieties more readily amenable to our 20th century requirements, which are stringent in the extreme.

By all means let us study Mendel and his theory, note the deductions of De Vries, and gather all the information possible from whatever source it can be had, remembering that nature's working theorems are to be discovered only by the painstaking application of the knowledge at hand, and that no amount of speculative theory will take the place of intelligent persistent experiment "personally conducted."

Let no one think for a moment that good results may not be obtained by the simple direct crossing of two varieties of roses, for such is quite possible without inter-breeding. Richmond was obtained by using pollen from Liberty upon Lady Battersea, but it was the one valuable result out of a very large number of the same cross, so that we may say there is a chance of a good return, though it is not probable, from this procedure.

I have carefully avoided the use of any scientific or technical terms and have only tried to embody in this very imperfect paper my own ideas and to chronicle the results of my own observations.

Our gardens are sadly in need of roses that will grow and bloom as do most of the present standard varieties in England, on the Pacific Coast and in many of our Southern States, but here in the North, only a pitifully small number can be depended upon, and right here is a wide field for the hybridist to enter; a good reliable, ever-blooming garden rose will give pleasure and delight to millions of American citizens; it is to be hoped that many rose lovers may enter this sadly neglected field; my ideas on this line of the subject were given in a paper read before the S. A. F. at their annual meeting at St. Louis, 1905.

This line of work might have received a fine stimulus if the Trustees of the Carnegie fund had been empowered to set aside certain funds to be awarded for meritorious new garden roses—the field is not inviting to one who must earn a maintenance, but if a prize or a money consideration could be offered of sufficient size it would stimulate efforts in this direction.

In closing I wish to express the hope that I have not wearied you in the presentation of my thought on working towards an ideal in the production of new types of roses.

CLIMBING AND TRAILING ROSES IN THE HARDY ROSE GARDEN.

A paper read before the American Rose Society by M. H. Walsh.

The popularity of this class of roses is increasing yearly as their valuable qualities for garden decoration become known. It was in the year 1903 when Wichuraiana was first introduced into the United States. Shortly after the Crimson Rambler was also brought to this country. The Wichuraiana and Crimson Rambler are the two parent plants from the many varieties of rambling and trailing roses and these may properly be called Wichuraiana and Multiflora hybrids, a new race of hardy garden roses. Their vigor and constitution make them desirable as they prove hardy in the coldest localities. The freedom of growth, fine foliage,

and easy culture place them within reach of the amateur as well as the professional gardener. They adapt themselves to the varied conditions of soil and climate; of course, the better the soil the more attention received, the finer will be the growth and profusion of flowers. They grow in light sandy soil with less attention than most any other rose.

The various ways in which these plants may be grown as decorative plants in the garden are several. They may be trained in pyramid form on posts set in the ground about eight and one half feet high or in bush form. They can be grown as windbreaks on a trellis. They also make fine specimens when grown as standards about four feet high. They are being used largely at the present time for pergolas and archways and, when necessary, may be grown as ground roses trailing on the surface. They are admirably suited for covering rocks and stumps of trees.

When used for pergolas, the posts should be set about ten feet apart and eight and one half feet high. For quick effect three plants to the post will reach the top and partly cover over the first year.

Two plants usually are sufficient unless immediate effect is desired.

In 1903 there were few climbing roses which proved satisfactory, Queen of the Prairie and Baltimore Belle being the two varieties mostly called for. While these made rapid growth and gave fine effect, they were subject to the attacks of insects and unless sharply looked after shed their foliage and became an eyesore. The hybrid Wichuraiana and Multiflora are more desirable, being less liable to the attacks of insects, and they produce hundreds of blooms more to the plant than the old varieties of climbing roses.

The effect in the hardy rose garden produced by this new race of roses is marvelous and bewildering, almost beautiful beyond description, where fine specimens may be seen in the various colors, single and double flowers. This effect could not be attained until the advent of these roses. They are ornamental when out of flower, as the foliage is distinct and shiny; in many of the varieties some having the appearance of being varnished, as it were. Another most valuable consideration is the second crop of blooms produced by a few of the varieties in September, continuing until the frost sets in.

Planting. To obtain the best results when planting ramblers it is well to dig the hole two and one-half feet deep and about three feet wide, enriching the soil with decomposed barnyard manure. Plants five feet long set out produce flowers the first season. The young shoots should be tied occasionally as growth requires; this keeps the wind from swaying them about.

Where insects do attack these roses a slight dusting of hellebore is usually sufficient to stop their ravages. It is easily applied and no injurious results follow from its use, as is oftentimes the case when tobacco water or whale-oil solution are used, as many amateurs have found out to their sorrow.

The season of blooming. The earliest variety to bloom is Wedding Bells, semi-double, pink and white flowers; this is a seedling from Crimson Rambler. Next to flower is Debutante, soft

pink and double; the flowers are borne in large pinnacles. Sweetheart comes next, Carissima then follows. Dorothy Perkins, beautiful soft pink, flowers about the first of July, as do Wichuraiana, Crimson Rambler, and Lady Gay. Then follow La Fiamma, single red; Hiawatha, bright crimson, base of petals white; Minnehaha, large double, dark rose color; Paradise, single and a most vigorous grower, well adapted for parks and driveways and trellis work. Coquina is a delightful shade of porcelain pink, with the base of the petals yellow; flowers are from one inch and a quarter to an inch and a half in diameter. Delight is considered by some one of the very best of recent introductions. Its color is crimson with base of petals white; it has dark shiny foliage.

Mr. Jackson Dawson raised valuable and most desirable varieties—The Dawson, W. C. Egan, Farquhar and others. W. A. Manda of South Orange, New Jersey, has furnished such grand varieties as Manda's Triumph and Favorite; and others have added many valuable ones to the list. So we have a good list of varieties in wide range of color. It is a matter of choice as to color, some preferring one color and others another. In planting, however, varieties should be selected which harmonize and not clash with each other, for at this time the effect from an artistic point of view adds much to the beauty of the garden.

A few varieties bloom quite freely in September by pruning; cut back the shoots which have flowered in the early summer to within two inches of the main shoot and shorten the long shoots a few inches. Hiawatha, Debutante, and Delight treated as above will produce a nice lot of blooms.

Spring pruning. When the shoots are too crowded, cut out the old ones, leaving shoots of the previous season's growth to produce the blooms. The number can best be determined by the space it is desired to cover and the vigor of the variety.

This class of roses, owing to the hardiness and their adapting themselves to varying conditions of soil and climate, commend them to the consideration of the amateur.

New and meritorious varieties in white, porcelain pink, and yellow it is expected will shortly be ready for distribution. It is possible we may see perpetual blooming ramblers as free as the hybrid tea or monthly rose. Then indeed we shall have realized our highest expectations. The American raised hybrids give great satisfaction in Europe and the continent, and are marvels of beauty, when in bloom, which almost baffles description. There are great possibilities by improving existing varieties, and we hope this will continue until the highest degree of perfection is attained in all that constitutes a perfect hardy climbing or trailing rose in various colors and perpetual flowering kinds.

MOVEMENTS OF GARDENERS.

William Hogan has accepted a position with Mrs. Barns, Brushy Ridge, New Canaan, Conn.

William Angus has succeeded Jules Roeckens as gardener for A. M. Burbank, Newton, Mass. Mr. Roeckens has purchased and taken possession of a farm in Abington.

WHOLESOME CHESTNUTS.

In the rush of the next few days many things are liable to be overlooked, but on no account should it be forgotten that cleanliness is next to godliness, and that at Easter more than any other time every plant, flower, ribbon and dish should be spotlessly clean before being placed in view of prospective customers. The store also should conform in every particular to the ideals growing out of the promptings of the spirit of the occasion; in short, have everything bright and glowing, with yourself the brightest of all.

Although the time is short and every hour precious do not neglect to take precautions to harden off, at least slightly, everything you offer for sale. Just imagine the disappointment it will cause trusting customers if plants from a slight exposure become practically useless in a day or two after becoming their property, when with a little extra trouble on your part they would have been a source of pleasure for days, perhaps weeks, and the same customers satisfied and still trustful would come back again. With most made-up things it is much better to have them ready before Saturday than to have customers wait while they are arranged and besides the work will be better done in the absence of the hurry and excitement of that day.

Made-up baskets should not be arranged in masses and jumbles of glaring contrasts of form and color, but on the contrary with an eye to harmony evidencing an effort towards a pleasing conformity to refined taste. If, however, it becomes necessary to make use of some stiff plants in the making up of baskets or other receptacles it will be necessary to introduce something of more graceful habit to counteract the stiffness, always remembering that not the number but the quality and appropriateness as well as the arrangement, count for ultimate effect.

Of late years it has been noticed that a great many people buy other kinds of plants and flowers, especially for presentation to friends, in preference to lilies, therefore have in as good shape as possible everything available, and ready to lay your hands thereon at short notice.

When plants or flowers are ordered find out the customer's pleasure in regard to manner and time of delivery and conform thereto to the letter. Wrap the plants securely in clean attractive paper, pack all flowers in suitable boxes of a proper size; do not suggest that a customer carry a purchase, no matter how small. Have sufficient help in readiness to meet all possible demands.

A day or two before Saturday everything in the way of plants should be got together or placed where they will be conveniently reached and seen.

The store should not be packed full with plants and flowers, but the choicest should be displayed in a manner to compel the attention of customers when once inside more to each individual plant or vase of flowers than the creating of an impression by the effect of a general display. The windows, however, may with advantage be arranged in such a manner with plants and flowers as to produce a general effect.

A Model Establishment



The accompanying illustration shows the front windows and book-keeper's office in the new wholesale flower establishment of Welch Brothers, Boston, which was described at length in

these columns a few weeks ago. Visitors from all sections have expressed the sentiment that this place, so complete and modern in its every equipment, is a credit to the flower business. We think our readers who no-

tice this picture of one corner of the vast establishment will endorse the compliment. Many will recognize in the stately figure seen standing by Mr. Welch, the well-known ex-president of the S. A. F., M. H. Norton.

DON'T BE TEMPTED.

Every year during the month of March we experience a glut of a more or less long duration in the cut flower market. Many an otherwise reliable dealer has been tempted to reduce his rates to the retail buyer in consequence of the temporary low prices of the wholesale market. This condition of the market being only a few weeks before the high water mark of Easter values appears is a bad temptation to the weak-kneed and narrow-sighted retailer. The general public does not and cannot realize the condition of the wholesale market, but they will consider the florist who offers carnations on March 15 for 36 cents per dozen and asks for the same goods \$1.00 to \$1.50 two weeks later, as nothing short of a robber. Don't be tempted; the buying public will not resent an advance of 100 per cent., but rightfully mistrusts you if you advance 400 per cent. for two days. If you have more than you can sell or you are bound to buy out the wholesale house because the prices are low, make use of this time to be charitable and give your surplus to the hospitals and orphan asylums, etc., but preserve your credit with your customers by upholding on honest prices.

FR. DENZER.

HEARING ON EXPRESS RATES BEFORE THE INTERSTATE COMMERCE COMMISSION.

The hearing on the complaint made by Secretary Stewart of the S. A. F. last year against the increased transportation rates on cut flowers exacted by the United States Express Company finally came up before the Interstate Commerce Commission at Washington, on Friday, March 15, and continued two days. Attorney Frank Lyon appeared for the complainants and testimony was given by Frank L. Moore of Chatham, N. J., L. M. Noe of Madison, R. M. Schultz of Madison, L. B. Coddington of Murray Hill, F. H. Traendly, New York, A. Farenwald of Roslyn, Pa., A. J. Guttman, New York, and President W. J. Stewart of the S. A. F. Cost of special delivery service in New York city and reduced receipts because of the wagon express which has operated in competition with them for several years were given by the attorney for Platt's corporation as the reason for the high charges which, it was shown, are almost double those charged for similar service by other express companies. The attorneys have now been given thirty days in which to file briefs based on the testimony given and the decision will then be given by the Commission.

SIMPLE FAITH AND "SOUR" NEWS.

Our simple faith in this column being the exclusive source of information on some subjects to our Boston contemporary is, we are glad to see, properly appreciated; but why drag in cats and canaries? Aesop tells about a certain fox and some sour grapes—the rest you know. News is like grapes to some editors, sour if not obtainable while fresh.

The above oracular effusion which appears in the March 16 issue of our bumptious New York contemporary, under the caption of "The Week's News," acquires its principal value from the following note which appears lower down in the same column, which was cribbed, word for word, from the news column of HORTICULTURE of March 2, page 266:

"M. H. Norton has accepted a position representative for F. W. Kelsey of New York in eastern New England territory. Mr. Norton has a wide acquaintance among the proprietors and gardeners in the many large estates on the north and south shore and starts on his duties with excellent prospects."

Alas, for the waning reputation of that New York column as an "exclusive source of information." "Sourness" and mildew evidently have no terrors for some folks.

HORTICULTURE:

Kindly discontinue my ad.; sold out.
HENRY S. PENNOCK.

VICTORY HAS MADE GOOD

CUTTMAN & WEBER
The Wholesale Florist
of New York
43 W. 28 St.,
Grower
Lynbrook, L. I., N. Y.

Place your orders early for rooted cuttings. Prices \$6 per 100, \$50.00 per 1000. DISCOUNT FOR CASH WITH ORDER

CARNATIONS.

(A paper read before the Detroit Florist Club by Fred Stahelen.)

Mr. Stahelen, after describing his houses built in 1903 and additions two years later, continued as follows:

My propagating bench is built of 1 ft. by 6 in. tamarack boards with three hot water pipes underneath. After whitewashing the inside of the bench it is filled 2 in. deep with fine cinders which are then covered with 3 in. more of coarse, clean sand levelled and well packed.

I try to select cuttings at the stage when they are about 1-2 in. long or more without any leaves, then cut as small an amount as possible off the base and still leave a nice clean surface. If plenty of room is at hand on propagating bench leave on all the leaves except perhaps the small lower ones. When cuttings are ready make a rut in the sand with a tableknife and insert your cuttings 3-4 in. apart in the row and the rows about 2 1-2 in. apart. Spray the cuttings every day until rooted and more often when much ventilation is given. The cuttings should never see bright sunlight until rooted and then they should be potted up as soon as possible. I always plant them in flats for labor-saving purposes and I believe this to be just as good as potting them up. The advantage of growing young carnations in flats over that in pots is (1) a saving of labor; (2) they are less apt to suffer from want of water, which is worthy of consideration during the spring rush of business; (3) about the last of April or beginning of May they can be placed outside where a water pipe is convenient. This outdoor treatment with cool nights brings strength and vigor to the young plants and makes them better fitted for the planting in the field. In case of frost a sheet of cotton is spread over them for protection.

The best way to remove plants from the box is to cut with a sharp knife both ways between the rows of plants, then hold the flat up on one side, give it a sharp downward tap upon a solid block, which will loosen the plants easily and they can be removed in good shape with all the soil clinging to the nice mass of roots which they always have. Such plants with roots spreading out in every direction are much more ready to take hold than pot-bound plants.

So far I have always planted out as early as possible, sometimes commencing the last of April when we still have hard frosts and I find the earliest out always make the best plants. They are planted 8 to 9 inches apart and in rows 30 in. apart to allow horse-cultivation. This should be done as soon as possible after every rain. Topping should never be overlooked to prevent the plants producing a lot of unnecessary buds, thereby wasting their strength. There should never be

CARNATION MAY.



This is a seedling raised by Baur & Smith, of Indianapolis, who send us the following notes in description of its various qualifications to trot in the winning class. Mr. Baur naively adds in postscript, "It has only two parents!"

"May is not a fancy exhibition prize winner and will not displace Enchantress in the fancy class. But it is a strictly first class commercial variety to grade with Lady Bountiful, Victory, Lawson, Winsor, etc., and will prove a highly profitable sort. Its

color is very pleasing, being deeper and more even than Enchantress. The bloom is also less crowded in the center, which allows it to unfold quickly and perfectly at all times. Never splits the calyx, and the stem is always strong. Comes into bloom early and is extremely free. Plant is strong and healthy and grows in height about the same as Lady Bountiful. Both parents were seedlings of our own. We have a nice stock of it, and expect to put it on the market next season."

more than 2 or 3 shoots topped off at one time; doing this often helps much to have plants in continuous bloom.

Lifting and planting into the houses should always be accomplished as early as possible. I have planted in August but would do it earlier if possible. By keeping plants well cultivated they can be taken up in almost any kind of weather although a dry time is best because the foliage is rather hard and not easily injured by wilting. I like to leave on a ball of soil about 3 in. in diameter which, when planted, helps to keep them erect and from wilting badly the first few days. The plants are sprayed once or twice a day according to weather, also kept well watered after the roots have taken hold. At this time it is necessary to keep the

ground well watered but still not too wet because the plants have not as yet taken a strong hold and the soil not being full of roots it is easily and quickly soured; thorough cultivation will do much to avoid this and therefore should be done often.

As soon as growth commences the shade on the houses should be removed, plenty of ventilation given, and the plants never allowed to suffer from want of water. After the plants are larger and beginning to bloom the ground being full of roots helps much to keep the soil sweet and it is not necessary to cultivate so often.

Fumigating and syringing should be well taken care of regularly, greenfly and spider kept out of sight; nothing causes so much annoyance and loss as a good crop of these pests.

CULTURE OF THE CARNATION.

(Paper read before the Morris Co. Gardeners' and Florists' Society, Mar. 13th, 1907, by Percy Herbert.)

I will assume that everyone who propagates his own plants has a suitable house in which to root the cuttings. I prefer a house facing north, such a house as can be built back of any three-quarter-span-roofed greenhouse which faces the south. You can either have one or two benches according to the width of your house. I prefer a little bottom heat, though it is not absolutely necessary. I would have my benches from 4 to 6 inches deep. I would take the best and sharpest sand, not too fine nor yet too coarse—just a nice medium. The very fine sand packs too close and if it is too coarse it does not pack enough; seems to have a kind of a spring to it and does not hold the cuttings tight enough, and also dries out too quickly. The sand should be from three to five inches deep according to the depth of bench. Pound it well with a brick to make it firm, then water thoroughly and the bench is ready for your cuttings. I prefer to select my cuttings for the following winter's bloom, from the end of December to the beginning of March. They can be taken earlier and later, too, but I consider the period mentioned best.

The stock plants should be well established in the benches, with plenty of flowering stems, and nice sturdy growths before propagating operations commence. I like to select my cuttings from the flowering shoots on healthy and vigorous plants, choosing short, stout, well-developed shoots, avoiding those too near the tops of the stems, still leaving a few shoots near the base for the next crop of flowers. In this manner you will get from six to a dozen cuttings from one plant which will give you ample for your own use and some over. Of course you can go further and take everything in sight, but the plants will suffer and you will ruin your chances for the next crop of flowers. I usually take cuttings by pulling them with the hand; I grasp the plant with the left hand, and with the thumb and finger of the right give a gentle upward pull to the cutting, and it will easily come away. Cuttings taken this way need but little trimming, and are ready to insert in the sand right away. I don't advocate the wholesale trimming of carnation cuttings, still, when a man has a considerable number to root some trimming is necessary. Sometimes we have to take shoots that are too long; it is not always convenient to take them just at the right time; then we have to trim them a little. It is best to do the trimming with a sharp knife, not strip the leaves off roughly as if you were husking corn, as that is bound to bruise the cutting and make it liable to decay in the sand. When it is necessary to cut the bottom of the cutting cut it just below a joint.

When putting the cuttings in the sand I use a lath as a guide for the rows. Lay the lath on the sand, hold in position with the left hand and then with a piece of hard wood shaped like a knife draw a furrow across the bench, in which then place



Spiraea Gladstone, large bushy plants, 6 and 7 inch pots, 50c., 75c., 1.00 each.

Spiraea superba, 6 inch, 25c. to 35c. each.

Cineraria hybrida, 6 inch pots, all shades, 3.00, 4.00, 5.00 per dozen.

Hydrangea Otaksa, 6 and 7 inch pots, 50c., 75c., 1.00 each.

Crimson Rambler Roses, 6 inch pots, 3 ft. high and over, 1.00, 1.25, 1.50, 2.00 each.

Hyacinths, all shades, 4 inch pots, 12c.

Tourensol Tulips, 3 plants in a 4 inch pot, 12.00 per 100 pots: 1.80 per dozen.

Double Von Sion Daffodils, 3 plants in a 5 1/2-6 inch pot, 2.50 per dozen pots.

Araucaria excelsa, 6 inch pots, 6, 7 and 8 tiers, 1.00, 1.25, 1.50 each.

A. excelsa glauca, 6 inch pots, 5 and 6 tiers, 1.00, 1.25, 1.50 each.

A. compacta robusta, 7 inch pots, 30-35 inches high, very fine, 2.00 to 3.00 each.

Specimen glauca, 7 inch pots, 3.00 each.

Please mention if pots are wanted. Cash with order please. All goods must travel at purchaser's risk.

GODFREY ASCHMANN, 1012 Ontario Street, Philadelphia, Pa.
Wholesale Grower and Importer of Pot Plants.

EASTER PLANTS

An immense stock now ready at the well-known establishment of

GODFREY ASCHMANN, Philadelphia.

Azalea indica our specialty, three houses full, selected personally by myself on my annual business trip in Belgium last fall.

Mme. Van der Cruyssen, the best double pink azalea in existence. Have 3000 of them, all as round as an apple, just covered with buds. Other varieties as, Niobe, Bernard Andrea alba and Deutsche perle (double white), Empress of India, Prof. Woiters, Verveaneana (double variegated), Simon Mardner, and about eight more best varieties, price 75c., 1.00, 1.25, 1.50, 1.75, 2.00 each. Have a limited amount of 50c. and 60c. size, such as Apollo (dark red), Simon Mardner, etc., (no Van der Cruyssen).

Lilium multiflorum, 6 inch pots, were never so nice as this year. Price, 12c. per bud for plants with 4 buds or less; plants with 5 buds and above, 10c. per bud.

Araucaria excelsa, 6 inch pots, 6, 7 and 8 tiers, 1.00, 1.25, 1.50 each.

A. excelsa glauca, 6 inch pots, 5 and 6 tiers, 1.00, 1.25, 1.50 each.

A. compacta robusta, 7 inch pots, 30-35 inches high, very fine, 2.00 to 3.00 each.

Specimen glauca, 7 inch pots, 3.00 each.

your cuttings with the left hand, pressing it firm with the forefinger of the right, and so on till the row is finished. Then place the lath across the bench, next to the row just put in, press it down firmly and draw your furrow for the next row, and so on till the bench is filled. Always make sure that the cuttings are resting on the sand at the bottom of the furrow. If the sand is pressed firm at the top of the cuttings and not at the bottom they will be sure to go back on you.

There are a few things to remember in the management of the cutting bench, the temperature, moisture, airing and shading. The cuttings will root nicely in a temperature of 50 to 55 deg. with the sand a little warmer. In a house with a northern aspect, it is not a difficult matter to keep the temperature steady, but if the sun strikes your house during the day it will be sure to vary a little and will have to be kept down by airing. As to moisture, I should always keep the sand damp, not sodden, but a little on the wet side. Syringe the cuttings as often as the weather will permit, overhead. The cuttings must not be allowed to wilt at any time and if the sun strikes the house you will need to shade the bench. Some newspapers laid over the cuttings is as good as anything. The papers will need to be put on every time the sun hits the house until the cuttings will have rooted. Then it can be left off by degrees. The house will need to be ventilated a little when 60 degrees is reached. The paper will help to keep the air from the cuttings, as air will cause them to wilt as badly as sun. Some laths might be laid on the papers

to keep the air from moving them. The sand can be used for a second batch of cuttings providing no fungus has appeared during the first period. When the cuttings are well rooted, they should be taken out, potted into 2-inch lots, or put into flats. I prefer to pot them. It takes a little more time perhaps, but you will be more successful. Some growers prick them off into a bit of good soil on a bench and hold them that way till planting time.

Plants that are potted will need to be watched in case they become pot-bound. It is a big job if a man has a considerable number of plants to repot them all again. A very good plan is to knock them out of the pots and place them in flats with good soil worked around them. They grow finely that way and you are always sure of a nice ball of soil to each plant when planting time comes, and if you plant in the field, when lifting time comes, that same little ball of soil will stick to the plants, though all the rest fall away.

All the young stock either potted or in flats, should be kept in a nice cool house, well ventilated and given every attention and care in watering, shading, airing, etc. The shading can be done away with after they have taken to the soil. Keep a watch for green-fly, and get rid of it as soon as it appears. The plants will need to be pinched once to make them bushy. They will be all the better if removed into cold frames some little time before planting, or as soon as the weather permits. It will harden them up and make them good stocky plants, ready to plant in field or bench.

SUPREMACY

Is still maintained

*Our Specialties
are the*

Aristocracy

Of the Floral Kingdom



*Cattleyas Schroederae,
Speciosissima, Mendelli
and Maxima.*

*Odontoglossum Crispum
and Rossii.*

Coelogyne Cristata



Finest Grades of Lily of the Valley, Garden

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Telephone,

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*If You Want Them
for*

Easter
ORDER AT ONCE



**Dendrobiums Wardian-
um and Nobile**

**Phalaenopsis Amabilis
and Schilleriana**

Oncidium Sarcodes

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Cymbidium Eburneum

aisies, Roses, Carnations, always on hand

EMANUS

= = **NEW YORK**

dison Sq.

A PLANT MARKET FOR NEW YORK.

(Address before the N. Y. Florists' Club by John Birnie.)

It would be useless as well as tiresome to give in detail the efforts that have been made during the last 17 or 18 years by the plant growers who dispose of their produce in New York City to find a permanent market-place suitable for their purpose. Suffice it to say that those efforts have been unsuccessful, and at the present time they are absolutely without a place where they can legally sell plants at wholesale.

That such conditions should prevail in a city like New York is deplorable, and shows that the civic government is delinquent and careless regarding the needs of the masses, who are the actual plant lovers and plant buyers. The argument that the majority of the plant growers are not citizens of New York City is humbug. The eggs that every New Yorker consumes for his breakfast are not laid on Broadway, neither is the celery which decorates the dinner tables of the 400 grown on Fifth avenue. The contention that "it won't pay" is also groundless, for notwithstanding high ground rent and other drawbacks, the N. Y. M. F. Association paid a dividend of 25 per cent. a year ago. However, the fact remains that a plant market for New York City is a crying need, and the subject has been brought before the New York Florists' Club for the purpose of eliciting suggestions as to ways whereby the desired object may be attained.

It is a subject that is of vital importance to every one in any way connected with the business, be he grower or retailer, and should interest every man and woman who has the welfare of the masses of New York City at heart. The denizen of the top story tenement may forget to say his morning prayer, but he never forgets to water his window plant. This would suggest the idea that the introduction of plants into the homes of the masses might prove to be a more potent factor in their regeneration than the missionary with either hell-fire and brimstone or holy water.

The plant trade in New York City has reached enormous proportions, and represent great investments, and would grow to be still larger were adequate facilities provided for selling plants at wholesale. The perishable nature of our products makes shelter absolutely necessary. A place of considerable dimensions would also be required; at least 10,000 square feet of floor space could be utilized from Easter until July 1st. The fact that we need a plant market for only three months in the year has been the worst obstacle in the way of securing a market. But I am sure that given a well heated, lighted and ventilated building the plant business would grow to such proportions that we would have seasonable plants to sell all the year round, as is done in European cities, some of which are much smaller in population than New York.

About 17 years ago a body of growers organized and called themselves the "New York Market Florists' Association." Four years ago this organization was incorporated under the laws of the State of New York; it has

VASES OF PLANTS AS SUBSTITUTES FOR GRAVESTONES.



The Kramer Brothers' Foundry Company of Dayton, Ohio, whose advertisement appears in this issue are doing good work on behalf of horticulture and good taste in inducing people to use vases of growing plants in cemetery adornment in place of the motley collections of monuments and gravestones, which disfigure our burial grounds. Our illustration shows a

an office on Broadway, and has a paid attorney. The stock issued was \$5000, which has only partly been subscribed for. I am of opinion that if all growers would join this organization, as it is obviously their duty to do, subscribe for the stock not sold, and issue more, the more energetic taking office and helping those already in the harness to do the work, something could be accomplished which would be of benefit to all concerned. We are still looking for a Moses to lead us out of the land of Egypt. Will the New York Florists' Club prove to be that Moses? Or, must we stay in Egypt for forty years?

PUBLICATIONS RECEIVED.

Peter's Nursery Co., Knoxville, Tenn.—"Helps to a Beautiful Home." List of ornamental trees and shrubs, illustrated.

The popular Baby Pathfinder Railway Guide appears this month in a new dress of type, and other improvements such as the elimination of trains in paragraph and other abbreviated forms.

The publishers have had many requests from commercial men for the distances between stations, which it was impossible to add with the type formerly used without increasing the

cemetery view in which the advantages of the use of these ornamental vases are well shown. That the effect is good and that the suggestion is a sensible one, no person of taste will question. Keep it in mind when the spring business starts up, and consult Messrs. Kramer Bros. A full line of these vases will be exhibited at the S. A. F. convention in Philadelphia, next August.

size of the Guide, which everybody objected to. The "Baby" now contains the mileage between all stations in New England and is still as compact and concise as ever.

The Dahlia News, Vol. 1, Number 1, has been received. It is to be issued monthly by the New England Dahlia Society, Maurice Fuld, secretary, 5 Union street, Boston. An interesting article on Field Roots vs. Pot Roots vs. Green Plants is contributed by Wm. F. Turner. The list of members given shows that the new society starts off with a good support from the dahlia enthusiasts.

VALLEY CLUMPS

\$15.00 100

Gladiolus Fine MXD

\$3.00 100

Tuberose XLGR

\$8.00 1000

W. Elliott & Sons

201 Fulton St.

N. Y.



Headquarters For CANNA ROOTS

Now is the time to plant them, NOTE THESE SPECIAL PRICES for strong dormant roots, two to three eyes to every root, ALL TRUE TO NAME. ORDER QUICK before they go.

	Per 100	Per 1000		Per 100	Per 1000
Alice Roosevelt, crimson.....	\$4 00	\$38.00	F. R. Pierson, scarlet streaked yellow	2 75	25.00
A. Bouvier, velvety red.....	2 75	25.00	Fl. Vaughan, yellow spotted red.....	2.75	25.00
Alsace, creamy white.....	2.75	25.00	Flamingo, crimson	2.75	25.00
Allemaunia, salmon, yellow border	2.75	25.00	Italia, golden yellow spotted red.....	2.75	25 00
Austria, yellow	2.75	25.00	J. D. Eisele, crimson, yellow throat	4.00	38.00
Br. aute Poitevine, crimson scarlet	2.75	25.00	Longford, scarlet, bordered yellow.....	4.00	38.00
Chas. Henderson, crimson.....	2.75	25.00	Mad. Crozy, vermillion, bordered yellow ..	3.50	30.00
Chicago, vermillion	2.75	25.00	Pres. McKinley, crimson	3.00	27.50
Egandale, cherry red.....	3.00	27.50	Queen Charlotte, scarlet, gold border	3.00	27.50
Fairhope, (new) crimson.....	25.00	215.00			

Send for our complete wholesale catalogue and price list of Seeds, Bulbs, etc.

HENRY F. MICHELL COMPANY

1018 MARKET STREET

PHILADELPHIA, PA.

Seed Trade

The bright Spring weather of the past few days has started a boom in the retail seed trade that is a little late in its arrival, but yet greatly appreciated. To show how late the season is, it may be mentioned that no peas have yet been planted in Delaware or Maryland. Frequently early peas are planted in that part of the country in February. It is reported that some peas will be planted this week, but the ground is still wet and cold, and seed needs to be hardy and of strong vitality to germinate under such conditions. One of the largest planters—a canner—said his crop this year would be a month later, and late pea crops usually mean short ones in that section, either from the ravages of the pea louse, or the excessive heat and drouth.

Johnson Seed Co. and Walter P. Stokes report an excellent business; the volume done by the two firms if combined, would be considerably in excess of that done by the old firm of Johnson & Stokes last year up to March 15th. This must be very gratifying to the two principals, and shows what energy wisely directed will accomplish.

W. Altee Burpee & Co. report a large demand for their two new Bush Lima beans. It is quite safe to say that after they have been tried by the public the demand will be even greater.

The trade generally reports the sale of both peas and beans as rather light. In the vicinity of New York city this is mainly due to scarcity of farm labor to pick these crops. It is reported from a reliable source that a Long Island farmer was compelled to plow up a fine crop of two acres of peas last summer because he could not get labor to pick them. That farmer is going light on peas the coming season and many of his neighbors likewise.

If the season is favorable for tomatoes this year they will be more than abundant. Every canner and farmer who ever grew any is planning for an increased acreage and many new ones are joining the ranks. For two years tomatoes have been rather scarce and high in price, hence the rush to grow

them. With a large crop and low prices the coming season, many will lose their interest in them another year.

Word comes from California of a probable shortage in the onion seed crop this year. This is pretty early to "cry wolf," and it would be interesting to learn on what this opinion is based. Our California friends must be "getting the habit." It's easy to get it either way. Just depends on your point of view.

Crossman Bros. of Rochester, N. Y., have run a street through their trial grounds and are now selling building lots. They expect to dispose of \$50,000 worth of lots this year. H. B. Hathaway announces his early retirement from any official connection with this house. The sale of their land is expected to give them a liberal working capital, and they will once again be in excellent financial condition. They are an old and reliable house, and will have the best wishes and congratulations of the trade in general.

Bennett Galloway of Syracuse, N. Y., has settled with his creditors, and starts anew with ample financial backing. Good luck to him.

A change in the headquarters for the New York convention of the American Seed Trade Association has been made by the local committee from the Park Avenue Hotel to the Hotel Astor. This change is liable to result in some confusion to those not familiar with New York City hotels, and it may be well to call attention to the fact that there are three hotels with the name "Astor," or "Astoria," attached to them. There is the old Astor House, Broadway, Barclay and Vesey streets; the Hotel Astor, Broadway, 44th and 45th streets, or Long Acre square, and the Waldorf Astoria, 34th street and Fifth avenue. The Hotel Astor, on Long Acre square, is the one chosen as the headquarters. It is conducted exclusively on the European plan, with rooms \$2.00 per day and up. If any special arrangements are made for the convention they will be announced in due time by the committee having the matter in charge. It may be said that the change in

hotels is decidedly for the better, and the committee deserves the thanks of the association.

Both catalogue and counter trade have been unsatisfactory in and around New York and Philadelphia up to the present time, but this may, without injustice, be charged to the execrable weather of the past two weeks. While this is unsatisfactory, there is no good cause for discouragement as yet, and it is not a rash prediction to say that the close of this season will show an average well up with last.

Onion sets are becoming scarce, and quite an advance in prices has been scored in the past ten days. Considerably higher figures may yet be looked for.

Josiah Young, the seedsman, of Troy, N. Y., has moved into his new store on River street, just above H. W. Gardiner, thus bringing the two seedsmen close together. Mr. Young has bought the business, including the greenhouses and some eighteen or twenty acres of ground of Goodrich, "The Broadway Florist," of Troy. About half of his large, double store will be used for the sale of cut flowers and florists' supplies and the other for seeds, small hand implements, tools, etc. The second floor will be used for offices, and the other two stories for storage of supplies. When the improvements under way are completed, Mr. Young will have one of the handsomest seed stores in the State outside of New York City.

**I Have a Few Pounds of Seeds of
DELPHINIUM
CARDINALE**

Which I Offer at \$5.00 per Pound

Herbert E. George

928 Morton Ave., Pasadena, Cal.

NEW STOCKS

FLOWER SEEDS for FLORISTS

Wholesale Catalogue Ready. Send for it today. But first read our advertisement on page 105 in the Horticulture for January 26th, 1907. It is worth reading.

**James Vick's Sons,
Seedsman, Rochester, N. Y.**



JOHNSON'S HIGH GRADE LILY OF THE VALLEY PIPS

ARE THE FINEST OFFERED TO THE TRADE

	Per 100	Per 1000	Per 2500 pips
Selected Hamburg, for forcing,	1.25	11.00	25.00
Selected Berlin, unsurpassed in quality,	1.50	12.00	23.00

JAPANESE LILIES

	Each	Doz.	Per 100
Auratum, 8 to 9 inches,	\$0 10	\$0 75	\$5 00
Speciosum Album, 8 to 9 inches,	10	1 00	7 00
Rubrum, 8 to 9 inches,	10	85	5 75
Melpomene, 8 to 9 inches,	10	1 00	6 75

Johnson Seed Co., 217 Market Street,
PHILADELPHIA, PA.

Herbert W. Johnson, of the late firm of Johnson & Stokes, President.

150,000 CANNAS

TRUE TO NAME

All with two to three good eyes
Packed 250 in a box, 250 at 1000
rate, 25 at 100 rate.

RED CANNAS

	100	1000
Beaute Poitevine. 3½ ft.	2 25	20 00
Chas. Henderson. 4 ft.	2 00	17 50
Crimson Bedder. 3 ft.	3 00	27 50
J. D. Eisele. 5 ft.	2 25	20 00
Explorateur Crampbell. 5½ ft.	2 00	17 50

PINK CANNAS

	100	1000
L. Patry. 4½ ft.	2 00	17 50
Martha Washington. 3½ ft.	2 00	17 50
Mlle. Berat. 4½ ft.	2 25	20 00
Paul Marquant. 4½ ft.	1 75	15 00

ORANGE CANNAS

	100	1000
Admiral Avellan. 4½ ft.	1 75	15 00
J. D. Cabos. 4½ ft.	2 00	17 50
President Cleveland. 4 ft.	3 00	27 50
Secretary Chabanne. 4 ft.	2 00	17 50

GOLD EDGED CANNAS

	100	1000
Mad. Crozy. 3½ ft.	2 75	25 00
Souv. de A. Crozy. 4 ft.	2 75	25 00

YELLOW CANNAS

	100	1000
Buttercup. 3½ ft.	5 50	50 00
Comte de Bouchard. 4½ ft.	2 75	25 00
Florence Vaughan. 5 ft.	2 00	17 50
L. E. Bailey. 4½ ft.	2 00	17 50

WHITE CANNAS

	100	1000
Alsace. 3½ ft.	2 00	17 50
Peachblow. 3 ft.	1 75	15 00

BRONZE CANNAS

	100	1000
Black Beauty. 5 ft.	6 00	50 00
David Harum. 3½ ft.	3 25	30 00
Grand Rouge. 8 ft.	1 75	15 00
Musafolia. 8 ft.	2 75	25 00
Robusta. 6 to 8 ft.	1 75	15 00

ORCHID CANNAS

	100	1000
Allemania. 4 to 5 ft.	2 25	18 00
Austria. 5 ft.	1 75	15 00
Italia. 4½ ft.	2 25	18 00
Kronus. 5 ft.	2 75	25 00
King Humbert. 4 ft.	12 \$2,	15 00

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8 - 10 " " " "	3 50	30 00
10 - 12 " " " "	5 50	50 00
12 " " and up " "	10 00	90 00

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For the Flower Garden,
For the Vegetable Garden,

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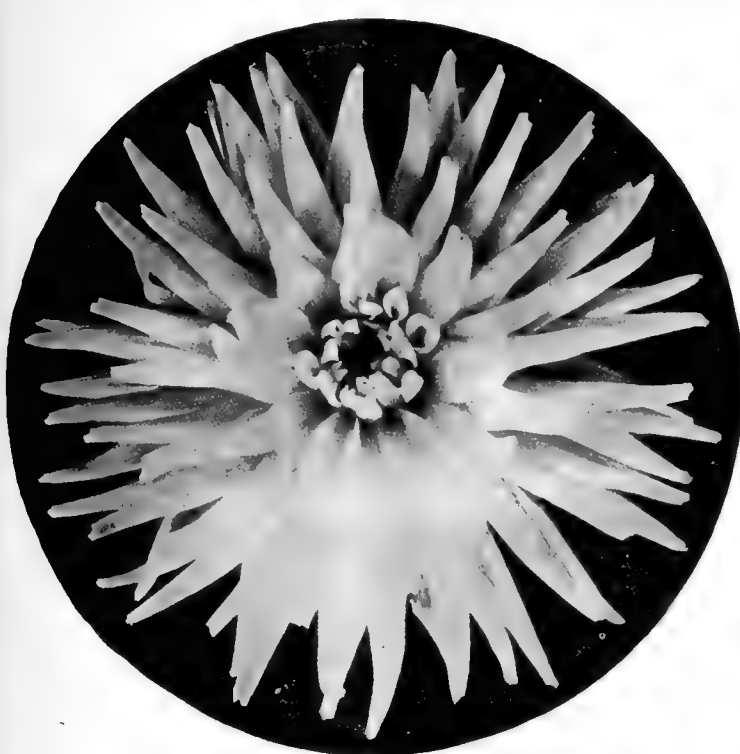
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	Per doz.	Per 100
A. D. Livoni, (Quilled). Pink.....	\$1 00	\$8 00
Aegir, (Cactus). Warm cardinal red.....	1 00	8 00
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Catherine Duer, (Decorative). The favorite Newport red.....	1 00	8 00
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Gorelinde, (Cactus). Finest yellow.....	2 50	15 00
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Volker, (Cactus). A grand yellow.....	1 50	10 00
Winsome, (Cactus). A fine white.....	1 50	10 00
Wm. Agnew, (Decorative). Brilliant red.....	1 00	8 00
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Zulu, (Decorative). Deep maroon shaded black.....	1 00	8 00

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	Per doz.	Per 100		Per doz.	Per 100
Crimson Century. Rich velvety crimson.....	\$2.00	\$15 00	White Century. Large pure white.....	4 00	30 00
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For full descriptions of the above, as well as for a complete list of all the good varieties of Dahlias, new as well as standard sorts, see our current **QUARTERLY WHOLESALE LIST** just issued, which also contains offers of all seasonable Plants, Bulbs and seeds

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Groff's Hybrid, original stock. Gold Medal and Silver Trophy Strain. Crawford Strain. Farquhar Hybrids. Lemoine's Hybrids. May. Mixtures and untested seedlings. Send for list.

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Kriemhilde, Catherine Duer
\$1.50 per doz., or \$10.00 per 100

Storm King \$1.00 per doz., \$8.00 100

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Our selection \$18 00 per 1000, composed of the following varieties all to name: S A Nutt, Poitevine, La Favorite, Perkins, Brett, Viaud, Castellane, Doyle and several others out of 2 1-4 in. pot, with or without soil.

2 1-4 in pot	per 100	Rooted Cuttings	per 100
Fuchsias in variety,	\$3.00		\$1.00
Heliotrope,	2.50		1.00
Sweet Alyssum,	2.00		1.00
Lobelia,	2.00		1.00
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Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

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Successors to L. K. Peacock, Inc.
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In writing to Advertisers kindly mention Horticulture

REVIEW OF NEW BOOKS.

An artistically illustrated handbook on "garden making" has been published by Mr. J. Cheal, of Lowfield, Crawley. Mr. Cheal has had the advantage of visiting many of the famous gardens and parks in Europe. He has toured in the East and admired some of the gardens of ancient days, whilst by way of contrast the most up-to-date horticultural developments of the United States and Canada have been explored. Mr. Cheal considers that the most popular section of gardens among all classes at the present day is the herbaceous. This is largely due to the great increase in varieties, size, colors and habit, the long flowering period, and the cheapness of the plants. As regards garden buildings, Mr. Cheal writes: "These should be constructed in conformity with the house, at any rate where they are in close proximity to it. Greater freedom of design may be adopted in other parts of the grounds in erecting summer houses, arbors, rose temples, bridges, boat houses, etc., where the rustic style may be more in harmony with the natural landscape or the sylvan scene. A water temple may some times be introduced with excellent effect, especially on an island, and a bridge across a stream, besides serving a useful purpose may add a pleasing feature. The planting of creepers over brick walls cannot be too warmly recommended, also rough Devonshire walls, covered with the numerous trailing plants suitable for the purpose." The writer has a word in favor of old English gardens, with "their smooth-shaven turf borders with a profusion of hardy and sweet-scented flowers, sun-dials, yew hedges, and recessed seat." The more formal treatment of the garden adjacent to the house, Mr. Cheal points out, has found increasing favor during the last few years.

W. H. ADSETT.

London, Eng.

A PROFITABLE ENTERPRISE.

The Lohman Seed Co., of Detroit, has started to fill orders for spraying trees of private estates against San Jose scale, etc. A compressed air tank on a one-horse truck, with a platform for the man who directs the nozzle, about 12 feet above the truck platform is used. A very convenient and inexpensive outfit which is worthy of imitation by any florist who looks after private parks or desires to increase his earning capacity.

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FINE SPECIMEN CONIFERS

Iron-Clad Hardy Named and
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Roses, Vines, Fruit Trees, Etc.

... Send Lists for Quotation ...

Illustrated Catalogue sent on Receipt
of 4 cents Postage

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150 Broadway, NEW YORK

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THE EVERBLOOMING SALVIA

One of the most important novelties in bedding plants introduced for a long time, produces its wealth of flowers while very small and is in its full glory long before any other kind shows even a bud, grows also much dwarfer and more compact.

Our stock is raised from cuttings and seed, which was procured in Zurich (Switzerland).

Strong Plants from 21-2 in. Pots 75c per doz., \$5.00 per 100, \$45.00 per 1000

For full description send for circular or see Horticulture pages 140 and 202, American Florist's Carnation Number page 19, and Florist's Exchange page 185.

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SPECIMEN SHRUBBERY.

We have a surplus of the following varieties in extra heavy stock. If you are looking for something to give you immediate effects, now is your chance to get it at a reasonable cost.

NAME	SIZE	PRICE
Berberis Thunbergii,	2 1-2 ft. bushy,	\$20.00 per 100
Deutzia Pride of Rochester,	4-5 " "	15.00 " "
" gracilis grandiflora discolor,	3 " "	20.00 " "
" " rosea,	3 " "	20.00 " "
" " venusta,	3 " "	20.00 " "
" " campanulata,	3 " "	20.00 " "
" " Lemoine,	3 " "	15.00 " "
Hydrangea paniculata,	3-4 " "	20.00 " "
Ilex crenata (Japan Holly),	3-4 " "	100.00 " "

COTTAGE GARDENS CO., Queens, L. I., N. Y.

10,000 AMERICAN ARBORVITAE
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	per 10	per 100
3-4 ft. size.....	\$6.00	\$50.00
4-5 ft. size.....	7.50	60.00

Prices for dealers only. Packing additional at cost. 25 or more at the rate per 100.

Send to us for Ornamental Nursery Stock of all Kinds.

THE WM. H. MOON CO., Morrisville, Pa.

ROSA FRAU KARL DRUSCHKI
FINEST NEW WHITE HYBRID ROSE

We have a fine stock of this. Mail order today.

Send for our Rose Card.

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The New England Nurseries, Inc. *Bedford, Mass.*

...A Complete Horticultural Establishment...

Bedford Nurseries (formerly Shady Hill) **162 Acres** **Geneva Nurseries, 700 Acres**
FRUIT and ORNAMENTAL TREES, SHRUBS, ROSES, VINES, etc.

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Estimates on complete lists cheerfully given.

Catalogs Free

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Great Bargains

In nursery stock of all kinds.

PRIVET—3 to 4 ft. at \$3.50 per 100, \$30.00 per 1000.
 3 to 4 ft., XX heavy 4.00 " 100, 35.00 " 1000.
 4 to 5 ft., extra heavy 5.00 " 100, 40.00 " 1000.
 5 to 6 ft., 6.00 " 100, 50.00 " 1000.

HYDRANGEAS—2 to 3 ft. at \$7.00 per 100.
 3 to 4 ft. at 10.00 per 100.
 3 to 4 ft. XXX at \$12.00 per 100.

CARYOPTERIS MASTACANTHUS, field grown, at \$6.00 per 100.

STEPHANANDRA FLEXUOSA,—18 to 24 in. at \$7.00 per 100; 2 to 2½ ft. at \$8.00 per 100.

SPIREA VAN HOUTTEI—3 to 4 ft. at \$8.00 per 100.

VIBURNUM PLICATUM—2 to 3 ft. at \$12.00 per 100; 3 to 4 ft. at \$15.00 per 100.

70,000 AZALEA APOENA—Special prices on application.

HONEYSUCKLES—2 yr. old, in large quantities at \$0.00 per 1000.

600,000 HERBACEOUS PLANTS.

PINK PÆONIAS in large clumps at \$10.00 per 100.

30,000 CREEPING ROSES at low prices given on application.

THE ELIZABETH NURSERY CO.
 ELIZABETH, N. J.

GRAFTED ROSES

We offer this year the following assortment: Bride, Bridesmaid, Bon Silene, Etoile de France, Franz Deegan, Golden Gate, Ivory, Gen. McArthur, Kate Moulton, Kaiserin Augusta Victoria, Killarney, La Detroit, Liberty, Mme. Abel Chatenay, Mme. Caroline Testout, Mme. Hoste, Mrs. Pierpont Morgan, Maman Cochet, Marechal Niel, Perle Des Jardins, Papa Gontier, Richmond, Rosalind Orr English, Souv. Du President Carnot, Souvenir De Wootton, Tom Field, Uncle John, Wellesley.

The above grafted from 2 1-4 inch pots \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1-2 inch pots, re-potted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

AMERICAN BEAUTY

On own roots, from 2 1-2 inch pots, \$8.00 per 100; \$75.00 per 1,000; 3 inch pots, \$12.00 per 100; \$100.00 per 1,000; April, May and June delivery.

OUR GUARANTEE GOES WITH EVERY PLANT

A. N. PIERSON, Gromwell, Conn.

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ON DICKSON'S IRISH MANETTI

We are now booking orders for March delivery.

KAISERIN, BRIDE, BRIDESMAID, KILLARNEY & RICHMOND; \$120 per thousand

Order Now.

ROBERT SCOTT & SON

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BAGSHOT, ENGLAND

have the finest stock of recognized **Hardy Rhododendrons, Azaleas, Andromedas**, high class Evergreens and specimen Conifers. **Ask for special list of plants grown for the American trade.**

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STRONG DORMANT PLANTS

American Beauty, Clothilde Soupert, Gloire de Dijon, Kaiserin Augusta Victoria, La France, Mad. Caroline Testout, Frau Karl Druschki, Crimson Rambler, Baby Rambler, Dorothy Perkins, etc., etc., **SUITABLE FOR FORCING.**

Immediate Delivery. Prices Right.

General Catalog and Price Lists ready.

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North Abington, Mass.

GRAFTED

Brides and Maids

— on —

Best English Manetti

Good Stock; Guaranteed to Give Satisfaction.

WRITE FOR PRICES

MONTROSE GARDENS
 MONTROSE, MASS.

LADY GAY

AND

HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

Catalogue mailed on request.

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ROSE SPECIALIST WOODS HOLE, MASS.

SPECIMEN NURSERY STOCK

Deciduous Trees and Shrubs, Evergreens, Rhododendrons, Azaleas, over one hundred (100) acres of the choicest varieties.

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COTTAGE GARDENS CO.
 Queens, Long Island, - New York

The New "AURORA" A Rose
 Pink Rose **AURORA** for Everybody

CROSS OF BON SILENE AND PRES. CARNOT.

Flowers large and full with strong, stiff stems. Keeping quality excellent. Strong and vigorous grower. Plants from 2½ in. pots, \$6.00 per doz. Easy to grow.

\$30.00 per 100, 50 at 100 rates, \$250.00 per 1000, 250 at 1000 rates.

Ready for delivery on and after April 15, 1907. Order at once. Stock limited. Unknown parties—cash with order please.

PAUL NIEHOFF, Lehigh, Pa.

NEW CANNAS

William Saunders 50c. each
 New York \$5.00 per doz.
 Ottawa \$35.00 per 100

Send for our list and descriptive catalogue. We have a large stock of the best varieties.

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on their own roots our specialty
Shrubbery IN VARIETY

Be sure and get our catalogue.

The **CONARD & JONES CO.**, WEST GROVE, Pa.

The F. E. Conine Nursery Co.

Established 12 Years.

Stratford, Conn.

When you do not know where to get what you want Send to us. We can fill most any kind of an order in our line.

RETAIL ONLY.

... OUR ... CARNATION NOVELTIES — For 1907 —

Winsor, White Enchantress and Helen M. Gould

ONE way to judge carnations is to see them on the exhibition tables. A better and more convincing way is to see them growing; therefore we cordially invite all carnation growers to visit us and judge for themselves regarding the superiority of the above-named sorts.

Our carnation houses are at **Scarborough-on-Hudson**, (not Tarrytown). Friends who desire to visit us can take the N. Y. C. & H. R. R. R. from New York. Trains leave there every half hour. Scarborough is the first station north of Tarrytown. Our grounds adjoin the station, and the greenhouses are about five minutes' walk from the station.

We are growing **25,000 plants of Winsor** for cut flowers, alone, for the new York market this season, which shows the faith we have in it. This will also enable visitors to see it growing in quantity, and besides that, will give us enough plants to get a great abundance of fine, healthy cuttings without over-propagating. We have already booked a large quantity among the large growers, and anticipate for this variety the largest sale of any new carnation that has ever been distributed, as large growers who have seen it are enthusiastic in regard to its value. Those who have seen it have immediately placed large orders for it, so we recommend those who have not ordered to place order without delay, so as to insure early delivery.

For full description of these three valuable novelties, see our wholesale price list.

Wholesale Prices Rooted Cuttings Spring, 1907

WINSOR.—Soft silvery pink. The best color, best keeper, best shipper, best seller—best every way. \$12.00 per 100; \$100.00 per 1000.

WHITE ENCHANTRESS.—Has the large size, long stem, productive habit of Enchantress, but is pure white. \$12.00 per 100; \$100.00 per 1000.

HELEN M. GOULD.—A beautiful sport of Enchantress. Ground color lovely shade of silvery pink, with very fine pencilings of carmine, making an exceedingly exquisite combination. While on close observation this variety is variegated, the general effect is one beautiful tone of dark pink. Exceedingly valuable, because it combines the earliness, freedom, long stem and large size of Enchantress, giving another color possessing all the other desirable qualities of Enchantress. \$12 per 100; \$100 per 1000.

BEACON.—Orange-scarlet. A vigorous, healthy grower, of ideal habit. A profuse bloomer, with long stems. \$12.00 per 100; \$100.00 per 1000.

ARISTOCRAT.—Cerise-pink. Will be planted largely in place of Lawson. \$12.00 per 100; \$100.00 per 1000.

MELODY.—Daybreak sport of Lawson, about the same color as Enchantress, but much brighter, and does not fade like Enchantress. Also a much better keeper and shipper. Those who grow the Lawson varieties exclusively will find this very valuable and desirable, because it gives an improved Enchantress color, which is so popular, and at the same

time can be grown in the same house with the other Lawsons. An extra fine thing in every way and in great demand. A great addition to the Lawson class. \$10.00 per 100; \$75.00 per 1000.

ROSE PINK ENCHANTRESS.—A sport of Enchantress. Color, dark rose pink. \$7.00 per 100; \$60.00 per 1000.

WHITE PERFECTION.—A novelty of 1906, and a variety for which there is a great demand this season. A third larger than Lady Bountiful and a more perfect flower. \$6.00 per 100; \$50.00 per 1000.

VICTORY.—Scarlet. This is giving great satisfaction, being a free blooming, profitable scarlet. \$6.00 per 100; \$50.00 per 1000.

RED LAWSON.—A fine red. Our stock of this is superior to many stocks of Red Lawson that we have seen. \$4.00 per 100; \$30.00 per 1000.

VARIEGATED LAWSON.—The most productive of the variegated sorts. A favorite. Outblossoms Mrs. M. A. Patten. \$4.00 per 100; \$30.00 per 1000.

WHITE LAWSON.—An excellent white. \$4.00 per 100; \$30.00 per 1000.

LADY BOUNTIFUL.—Pure white. \$4.00 per 100; \$30.00 per 1000.

ENCHANTRESS.—\$3.00 per 100; \$25.00 per 1000.

MRS. M. A. PATTEN.—\$3.00 per 100; \$25.00 per 1000.

MRS. THOS. W. LAWSON.—\$3.00 per 100; \$20.00 per 1000.

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

ROOTED CARNATION CUTTINGS

WHITE PERFECTION, pure white, Extra fine stock. \$6.00 per 100, \$50.00 per 1000. **DAYBREAK LAWSON or MELODY**, the ideal light pink, better than Enchantress in many respects. \$6.00 per 100, \$100.00 per 1000.

HERE IS OUR LIST OF OTHER VARIETIES FOR MARCH DELIVERY

	per 100	per 1000
White Lawson	\$3	\$25
Lady Bountiful	3	25
Lieut. Peary	4	30
Red Riding Hood	12	100
Cardinal	4	30
Red Lawson	4	30
Daybreak Lawson or Melody	6	50
Helen Goddard	5	45
Variegated Lawson	3	25
Harlowarden, Crimson	2	15

MUM CUTTINGS

\$2.00 per 100, \$15.00 per 1000

Cremo	White Bonnaillon
Mrs. Nathan Smith	Pink Ivory
Majestic	W. H. Chadwick
Ivory	Estelle
Nertham Yellow	Touset
Adelia	Glory of Pacific
Yellow Bonnaillon	Mrs. Robinson

ROSES

From 2 1/2 inch pots

\$3.00 per 100	\$25.00 per 1000
Mme. Chatenay	Bride
Bridsmaid	Uncle John
	Richmond
	Golden Gate

AMERICAN BEAUTIES

From 2 1/2 inch pots \$50.00 per 1000

ARISTOCRAT NOTICE. We expect to have all orders for Aristocrat filled before the end of this month. We now have 100,000 cuttings in the sand for April delivery. As we have no more room in the propagating house we beg to offer unrooted cuttings of Aristocrat at \$60.00 per 1000 for immediate delivery. Aristocrat is a very rapid grower and you will find this is not too late for this variety to make good plants to sell from the field this fall.

CHICAGO CARNATION CO., A. T. PYFER, Manager JOLIET, ILL.

IMPERIAL and PINK IMPERIAL CARNATIONS

You Cannot Afford to be Without these Two Excellent Varieties

Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order

A. J. GUTTMAN,

The Wholesale Florist of New York
43 WEST 28TH STREET

JOHN E. HAINES,

BETHLEHEM, PA.

MABELLE

New Pink Carnation for 1907

Color—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most Pinks, the brightest sun does not injure the color. **Size**—3 to 4 inches in diameter when established. **Odor**—Pleasing, but not strong. **Stems**—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. **Habit, etc.**—A very quick, active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. **Productiveness**—P. odigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock limited. Delivery January 5th to 10th and later.

Price \$12.00 per 100, \$100.00 per 1000

THE H. WEBER & SONS CO., Oakland, Md.

JOHN E. HAINES,

The Leading Scarlet

brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass. All shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted, healthy cuttings leave the place. Rooted cuttings ready Dec. 15, 1906. Price, \$6.00 per 100; \$50 per 1000.

JOHN E. HAINES, Bethlehem, Pa.

FIELD CARNATIONS

For July 1 Delivery Contracted For.

Only the Newest Kinds
Also CHRYSANTHEMUM NOVELTIES

SEND FOR LIST

HARLOWARDEN GREEN HOUSES, Greenport, N. Y.

CARNATIONS.

Red Chief—Bright scarlet—early and very productive. \$12.00 per 100; \$100.00 per 1000. Average 3 in. flower. A leader in every respect.

Bonnie Maid—Clear pink edged white.—\$12.00 per 100; 100.00 per 1000. Large well formed bloom. Very early and productive.

F. DORNER & SONS CO.
La Fayette, Ind.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.



Send for Sample. Box 3040

DON'T THROW AWAY YOUR EASTER PROFITS. Save your pinks from splitting by using the H. & D. ARTIFICIAL CALYX easily applied and removed, lasts forever, first cost the only cost.

\$ 1.75 per 100

15.00 per 1000

250 at 1000 rates.

MAXFIELD & DIMOND

Warren, N. I.



Patented.

GLADIOLI

Beautifully illustrated catalog, colored plate, etc., describing Groff's Hybrids, Named Novelties of rare beauty, Mixtures and Collections to color and fine Mixtures of all colors. Write for it.

ARTHUR COWEE

Gladiolus Specialist
MEADOWVALE FARM, BERLIN, N. Y.

Chrysanthemum Novelties

Now ready for immediate delivery.

From 2 1/2 inch pots

MISS CLAY FRICK

(The white sport of Wm. Duckham)

Price 50c. each, \$5.00 per dozen, \$35.00 per 100

The finest stock you ever bought of a novelty. My list was mailed you. If you did not get it write me.

CHARLES H. TOTTY

MADISON, N. J.

CHRYSANTHEMUMS

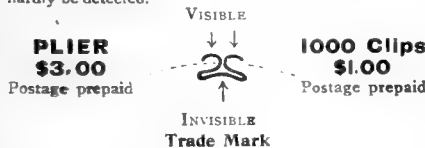
C. Touset and Nonin, the money makers as we have found them, \$1.00 per doz.; \$7.00 per 100; \$60.00 per 1000. Pacific, Estell, Willowbrook, Halliday, Kalb and L. Harriet, 60c per doz.; \$4.00 per 100. Cash with order.

EGGELING FLORAL COMPANY

653 S. Grand Ave., St. Louis, Mo

Save Your Split Carnations

The BAUR CLIP and PLIER will do it in a Businesslike manner at a minimum of time and expense. Inexpensive, Instantaneously Applied and Practically Invisible. The clips are made of galvanized wire and are colored green just the color of the calyx and can hardly be detected.



BAUR FLORAL CO., - Erie, Pa.

DON'T Be Afraid To Invest In ROSE PINK ENCHANTRESS

It is both free and "fancy"—a sure money-maker.

Price \$7.00 per 100; \$60 per 1000

Delivery January and later. Write for Descriptive Circular.

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824 No. 24th Street, Philadelphia

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WILLIAM HAGEMANN & CO.

Wholesale Importers and Exporters of

BULBS

55 Dey Street

NEW YORK

NEW DOUBLE PETUNIA

THE QUEEN

a wonderful bloomer; flowers from four to four and one-half inches in diameter; white mingled with purple, nicely fringed; an early bloomer; fine seller for Decoration Day; planted outdoors will bloom all summer. Strong plants, ready Feb. 15, \$1.50 per doz.; \$10.00 per 100; \$90.00 per 1000. Rooted Cuttings, \$5.00 per 100; they will make fine 4 in. plants in full bloom by Decoration Day.

THE YATES FLORAL CO.

Joseph Traudt, Prop. Canajoharie, N. Y.
Scranton Florist Supply Co.
SCRANTON, PA.

FIRST CLASS STOCK

Salvias, Dreer's superb single fringed Petunia, Ageratum, Lobelia, Coleus, strong, 2 inch, \$1.75 per 100; \$16.00 per 1000. Geraniums, strong 3 inch branched, \$40.00 per 1000; Double Grant, \$35.00; D. Grant, 2 inch, \$20.00 per 1000. Cash.

WM. S. HERZOG, Morris Plains, N. J.

WHITMANI

2 1-4 inch, \$10 per 100

BOSTONS

2 1-4 inch, \$3.00 per 100

H. H. BARROWS & SON Whitman, Mass.

ASPARAGUS

Plumosus, Robustus and Sprengerii

Three inch stock ready for fours. Send ten cents for samples and prices.

ALBERT M. HERR, Lancaster, Pa.

GOVERNOR HERRICK

THE NEW VIOLET

Originated and introduced by

H. R. CARLTON, Willoughby, O.

We have the following stock in the finest condition to plant and now is the time to plant:

3 1/4 inch at \$3.00 per doz., \$10 per 100 and \$75 per 1000

4 " " 2.50 " " 12 " 100 " 75 " 1000

It will pay you. Try it. Order at once.

ORCHIDS

Arrived in exceptionally fine condition the following ORCHIDS: LAELIA PURPURATA, CATTLEYA HARRISONIAE, C. INTERMEDIA, C. TRIANAE, C. LEOPOLDII and many more.

Write for Prices

LAGER & HURRELL, SUMMIT, N. J.

ORCHIDS

Direct from the Collectors

For Spring and Summer Delivery

We are giving quotations upon our entire list of South American, Philippine and East Indian Orchids. Choicest varieties of Cattleyas, Odontoglossums, Pilumnas, Cypripedium, Phalaenopsis, Dendrobiums and Vandas. Among them the very rare Vanda Sandersoniana for delivery June or July.

A. HELD, 11-19 William St., New York

Wholesale Trade List.

Plants from 2 1/2 in. pots, 50c. per doz. \$3.00 per 100

Asparagus plumosus, Heliotrope, Fuchsias, Salvia Bonfire, Coleus Verschaffeltii and Golden Bedder and fancy varieties, Variegated Periwinkle, Ageratum Blue Perfection, Moon Vine (white, the true variety) Ipomea Heavenly Blue, Acalypha, Clematis paniculata, Parlor Ivy, Lobelias.

Seedlings from flats at \$1.00 per 100

Asparagus Sprengerii, Smilax, Ageratum Blue Perfection, Petunia Howard's Star and Rosy Morn, Marguerite Carnations, Stokesia, Verbenas, Alyssum new dwarf.

Plants from 3 in. pots at \$4.00 per 100

Geraniums best varieties, rose, apple and nutmeg scented, Fuchsias, Heliotrope.

C. EISELE,

11th & Roy Streets,
PHILADELPHIA, PA.

BELGIAN PLANTS, FINEST STOCK, LOWEST PRICES

Order Quick

Quick Delivery

Araucaria excelsa, fine plants. \$20.00 per 100 up.
Rhododendron Hybrids, 24 named varieties.
\$18.00 per 100 up.
Aucuba japonica. \$10.00 per 100 up.
Aspidistras green. \$4.00 per 100 leaves.
" variegated. \$7.00 per 100 leaves.
Rubber Plants (Ficus elastica). \$9.00 per 100.

Kentias, Arecas, Latanias, Phoenix, etc., etc.
From \$7.00 per 100 up.
Bay Trees. From \$3.00 per pair up.
Begonias, tuberous singles. \$14.00 per 1000.
" doubles. \$23.00 per 1000.
Gloxinias, named varieties. \$22.00 per 1000.

F. O. B. Ghent, if unsold on receipt of order. Write for Catalogue.

L. Van Steenkiste

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1 Dey St., Jersey City, N. J.

... Established 40 Years ...

ROSE HILL NURSERIES

NEW ROCHELLE, N. Y.

Most Complete Horticultural Establishment in America

SIEBRECHT & SON

New York Office: Siebrecht Building, 425 Fifth Avenue

ORCHIDS

Importations, 1907

Save money and get our quotations on Cattleya labiata, Trianae, Percivaliana, Mossiae, Mendellii, Schroederiae.

JULIUS ROEHRS CO.

Largest Orchid growers and importers in U. S.
RUTHERFORD, N. J.

Orchids for Spring Delivery

Cattleyas, Laelias, Oncidiums, etc.

Write for price list. Finest quality of Peat and Moss and Orchid Baskets on the market.

Give me a trial order.

Joseph A. Manda

191 Valley Road, West Orange, N. J.

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Largest Importers, Exporters, Growers and Hybridists in the World

Sander, St. Albans, England
and 235 Broadway, Room 1
NEW YORK CITY

—ORCHIDS—

Some of the varieties we shall import this spring:

Cattleyas, Trianae, Labiata, Mossiae, Mendellii, Speciosissima, Gigas, Schroederiae, Dendrobiums Nobile, Wardianum, Phalaenopsis, Vandas Coerulea, Kimballiana, Oncidium Varicosum, Laelias Anceps, Autumnalis, Albida. Write for prices on above.

CARRILLO & BALDWIN, SECAUCUS, N. J.

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For Flowering Easter Plants, Fine Conservatory and Decorative Foliage Plants. Choice Orchids, Specimen Bays and Fancy Ornamentals.

JULIUS ROEHRS Co., Rutherford, N. J.

EASTER of 1907 We Invite Inspection of Our

- Azaleas*
Hydrangeas
Lilies
Crimson Ramblers
Daisies
- Roses*
Pink Ramblers
(Lady Gay, Dorothy Perkins)
Bougainvillea
Genistas
- Rhododendrons*
Gardenias
Ferns
Tulips (Pots and Pans)
Also *Ficus Pandurata*

COME AND LOOK US OVER. PRICE LIST ON APPLICATION

ROBERT CRAIG CO., 49th and Market Sts., Philadelphia, Pa.

EASTER STOCK

- HYDRANGEAS
- EASTER LILIES
- AZALEAS, 50c. to \$7.50
- GLADSTONE SPIREAS
- RAMBLER ROSES
- HERMOSA ROSES
- TULIPS, (in pans)
- HYACINTHS, (in pans)
- DEUTZIAS
- RHODODENDRONS, etc.

WILLIAM C. SMITH
61st and Market Street, PHILA.

Market Street cars take you direct to our door. Mention Horticulture when you write.

PLANTS FOR SPRING TRADE

<i>Dracaena Terminalis</i> , finely colored, 4 inch pots, -	\$4.00 per doz.
“ “ “ “ 5 inch pots, -	5.00 “
<i>Cocos Weddelliana</i> , fine plants, 3 inch pots, -	2.00 “
<i>Kentia Beimoreana</i> , “ 24 to 28 inches high, -	9.00 “
“ “ “ “ 18 to 20 “ -	7.50 “
<i>Araucaria Excelsa</i> , “ 15 to 18 “ 4 tiers, 7 50 “	
“ “ “ “ 20 to 24 “ 5 tiers, 10 00 “	

PETER HENDERSON & CO.
35 and 37 Cortlandt Street NEW YORK

**FINEST BULBS, NURSERY STOCK, PALMS
AZALEAS, BAYS, ROSES, BUXUS, EVER-
GREENS, and LILY OF THE VALLEY
“EXCELLENTA” and “SUPERIOR.”
JOHN SCHEEPERS & CO., 4 and 6 Old Slip, NEW YORK CITY**

Azaleas for Easter

From 50c. to \$5 in all colors

Also a fine lot of Palms in all sizes, such as Kentias, Arecas, Latanias, Phoenix and Cocos, Pandanus Veitchii and utilis, Crettons, Dracaenas, Nepenthes, Aralias, Araucarias, Aspidistras, Ferns suitable for dishes, in leading varieties. Cibotium Schiedel from \$1.00 to \$3.00 each.

Wholesale Price List on application.

A. LEUTHY & CO.,
Importers and Exporters, Growers and Dealers,
Perkins St. Nurseries, Roslindale,
BOSTON, MASS.

4000 Azaleas for Easter

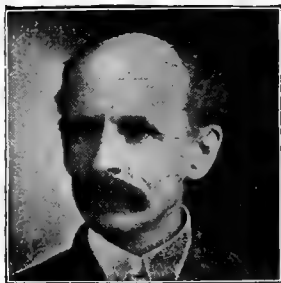
ALL COLORS
Prices from
50c to \$5

Also LILIES, GENISTAS, HYDRANGEAS, SPIRÆAS, BOUGAINVILLEAS, and LILACS. All Elegant Stock. Order Now.

John McKenzie, - North Cambridge, Mass.

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CALDWELL THE WOODSMAN,
Introducer of the Wild Smilax.

Wild Smilax, \$3.50 per case.

THE ONLY PLACE WHERE YOU CAN ALWAYS GET IT.

Long Needle Pines, \$1.00 per dozen. Palm Crowns, \$2.50 per dozen. Extra nice long-stemmed Palm Leaves, \$2.50 per 100. Magnolia, \$2.50 per case, 16 cubic feet. Sheet Moss, \$2.00 per sack. Grey Moss, \$2.00 per sack. Galax, \$1.00 per 1000.

Speed a Specialty.

Write for Catalogue.

Caldwell the Woodsman Decorating Co., Inc., EVERGREEN, ALA.

ROSES

VIOLETS

CARDENIAS

CARNATIONS

VALLEY

AND ALL OTHER CHOICE FLOWERS

In our **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition to our regular wholesale **EVERGREENS** and **FLORISTS' SUPPLIES**

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. **Boston, Mass.**
and 9 Chapman Place,

See our Greens Advertisement on page 405.

L. D. Telephone, Main 2618.

OBITUARY.

James Draper.

James Draper, secretary of the Worcester, Mass., park commission and one of the best known and highly respected park men and expert horticulturists in New England, died in his home in Bloomingdale, Mass., on March 12, aged 64 years. Mr. Draper was a member of the park board for 20 years and to him more than to any member of the present board is due the development of the city's magnificent system of parks and play grounds. He was one of the best-known park commissioners in New England, his prominence and solicitude for the Worcester parks bringing him into personal contact with the representatives of all the parks of this section of the country, and his advice was frequently sought by less expert commissioners in the development of their public play grounds. At the recent executive meeting of the Association of American Park Superintendents his name was presented for honorary membership.

Mr. Draper was also well known as a horticulturist and agriculturist. For nearly a quarter of a century he acted as judge of fruits at the annual fairs of the Worcester Agricultural Society. He was one of the originators and the first president of the Massachusetts Fruit Growers' Association, and he was master of the Massachusetts State grange when it was organized in 1872, and later he was elected president of the national grange. He was for many years a trustee of the Massachusetts Agricultural College at Amherst.

Other Deaths.

Daniel B. Stow, father of Charles B. Stow, florist, of Kingston, N. Y., died on March 4 at his home in Kingston.

Patrick Daly, gardener for Mrs. Henry P. Quincy, died on March 15 at

his home in Dedham, Mass. He was born in County Westmeath, Ireland, April 16, 1833, came to this country when a young man and has worked for the Quincy family for thirty-five years.

BUSINESS CHANGES.

H. S. Morton succeeds Otto J. Bach at the Wisner greenhouses, Rochford, Ill.

Foster Floral Co. will be located at 612 Olive street, St. Louis, Mo., after April 1.

LOSSES BY HAIL.

George Corbett, Henry Corbett, Joseph Sinfoot and Walter J. Gray of College Hill, Ohio, and Mrs. E. H. Martin of Shelbyville, Indiana, have reported losses by a hail storm on the 12th inst. Their glass was insured in the F. H. A.

JOHN G. ESLER, Secy.

NEWS NOTES.

The seventh lecture of the season before the American Institute of the City of New York was given by George T. Powell on March 20; subject, The Culture of Small Fruits.

The New England Nurseries has been incorporated under the laws of the State of Massachusetts, and has purchased the entire real and personal property formerly owned and operated by the Shady Hill Nursery Company of Bedford and Boston. Mr. Theodore J. Smith, of the W. & T. Smith Co., Geneva, N. Y., becomes president of the new corporation. Mr. Alfred E. Robinson, who was for fourteen years with W. & T. Smith Co., and who for the past four years has been manager for the Bay State Nurseries, North Abington, Mass., becomes treasurer and manager.

PERSONAL.

Philip Breitmeyer, of Detroit, has been visiting Pittsburg, Washington, Philadelphia and New York.

W. H. Wyman of the Bay State Nurseries, North Abington, Mass., has just returned from his European trip.

J. H. McHutchison of McHutchison & Co., New York, sailed for Europe on March 21, per S. S. Amerika, on a business trip.

Visitors in Detroit: J. Marks, representing A. L. Randall & Co., of Chicago; B. Eschner, of Philadelphia, and two trainloads of Dutchmen.

Visitors in Boston: George F. Strack, Summit, N. J.; Louis Dupuy, Whitestone, N. Y.; C. B. Weathered, New York; S. J. Reuter, Westerly, R. I.

Prof. A. F. Burgess, who resigned as chief inspector of the department of nurseries and orchards in the Ohio agricultural department, has entered upon his duties in the Massachusetts State department for the suppression of gypsy and brown-tail moths.

F. H. Ballou of Newark, Ohio, who was recently appointed State inspector of orchards and nurseries to take the place of A. F. Burgess, has decided not to accept the position, and C. W. Mally of Texas, has been selected in his stead. Mr. Mally has until recently been employed by the British Government in South Africa. The salary is \$1,400 per year.

HORTICULTURE:

Discontinue Mme. Sallerol ad. as we are all sold out.

Yours respectfully,
HAMMERSCHMIDT & CLARK.

News Notes

The Laible Floral Co. is the name of a new establishment in Norwalk, O.

A. F. Byxbee of Norwalk, Conn., has opened a retail store at 4 Wall street.

C. L. Powell, South Bend, Ind., has opened a salesroom on the north side.

Evans Seed Co., West Branch, Mich., on March 5. Loss, \$10,000; insurance, partial.

E. H. Bears & Son, of Reading, Pa., have opened a branch office at 14 S. Sixth street.

Herbert Greensmith has resigned his position with the Black Hall Greenhouses, Black Hall, Conn.

C. H. Chapin has taken the greenhouses of J. W. Perry, El Reno, Okla., and will make many improvements.

Hans Madsen of Springfield, Mass., has disposed of his greenhouse and will return to his fatherland, Denmark.

C. D. Mills, Jacksonville, Fla., has opened his new greenhouse at Riverside, the growing residential section of the city.

Miss Mayme Mooney and Miss Margaret Weir have opened a retail flower store on N. Franklin street, Wilkesbarre, Pa.

F. E. Bouton of Bridgeport, Ct., has opened a retail store at 48 Fairfield avenue. The store has been recently handsomely decorated.

The Conference on Rural Progress in Newport, R. I., will be held on March 26, instead of March 16, as reported in our last issue.

The Bemb Floral Co., Detroit, is getting up interesting novelties for fern dishes, hanging baskets, etc., made of dried grasses, etc., and they find a ready sale for them.

Gust. H. Taepke, of Detroit, has acquired by purchase the lot of land on Elmwood avenue where he first started to grow posies, and will remodel those greenhouses during the coming summer.

The Newton Floral Co. of Norfolk, Va., have secured the contract for the landscape gardening around the Illinois State Building at the Jamestown Exposition. A hedge of California privet will surround the grounds.

William J. Smyth
FLORIST

Cor. Michigan Ave. and 31st St., CHICAGO

We ship to all points in Illinois and Iowa.

Phones: Douglas 744, Douglas 523, Douglas 740

JACOB SCHULZ, 644 Fourth Ave., LOUISVILLE, KY.
Cut Flowers of BEST QUALITY in season delivered promptly to any address.
Write, Telegraph or Telephone.
Cumberland and Home Phones 223 and 984.

BOSTON FLORIST LETTER CO.
Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters
Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers
N. F. McCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

JOHN BREITMEYER'S
SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada

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Florist

Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO
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FLORIST

4326-28 ST. LOUIS, MO.
OLIVE STREET

Established 1873
Long Distance Phone Bell Lindell 676

WILLIAM L. ROCK
Flower Co.

KANSAS CITY, - MO.
will carefully execute orders for Kansas City and any town in Missouri or Kansas.

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Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N. Y.

ATLANTA.

ATLANTA FLORAL CO.
41 Peachtree Street, ATLANTA, GEORGIA.

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

571 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

EASTER GIFTS

Delivered on Order by Telegraph or otherwise in New York or Brooklyn.

WM. H. DONOHUE,
2 West 29th St., New York

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"



WASHINGTON,
D. C.

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Geo. H. Cooke
FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

Send orders for flowers for delivery in

BOSTON and all NEW
ENGLAND POINTS to
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The Park Floral Co.

J. A. VALENTINE
Pres.

DENVER, COLORADO

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FLORIST

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... BEAUTIES FOR EASTER ...

QUALITY — No better stock in Philadelphia. Mr. George Burton, one of our Beauty consignors, was awarded first prize at the **Rose Show at Washington**. That speaks for itself.

QUANTITY — Depend on us for all you may need. We will be in a position to accept the largest orders that are being placed. An order for a dozen will have the same good attention.

PRICE — The Market Price, no more. We will gladly quote you on what you may need.

WE WILL BE WELL SUPPLIED WITH CHOICE STOCK OF
EVERYTHING SEASONABLE AT EASTER.

THE LEO NIESSEN CO. Wholesale Florists

1209 Arch Street, PHILADELPHIA

Store Open From 7 a. m. to 8 p. m.

AMERICAN BEAUTY

and all other Roses

LILY OF THE VALLEY CARNATIONS

WELCH BROS.

226 Devonshire St., BOSTON, MASS.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

EVERYTHING SEASONABLE IN CUT FLOWERS

EDWARD REID, Wholesale Florist
1526 Ranstead Street, PHILADELPHIA
Store Open 8 P. M.

PETER REINBERG WHOLESALE

CUT FLOWERS

51 Wabash Av., Chicago, Ill.

In writing advertisers mention Horticulture

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W. E. McKISSICK

Wholesale Florist

1221 Filbert St., PHILADELPHIA

FANCY WHITE LILAC

Beauties. Carnations. Violets

Superb Illustrated Supply Catalogue just out. Send for one.

A. L. RANDALL CO., 19-21 Randolph St. CHICAGO.

DAILY CONSIGNMENTS

From 40 to 60 Growers

We can care for your cutflower wants to advantage.

E. F. WINTERSON CO.
46-47-49 WABASH AVE., CHICAGO

ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building

28 STATE ST., BOSTON

Telephone, Main 34

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO March 18	ST. LOUIS	PHILA. March 19	BOSTON March 21
ROSES				
Am. Beauty, Fan. & Sp.	35.00 to 40.00	..... to	40.00 to 50.00	25.00 to 40.00
" Extra.....	25.00 to 30.00	..... to	25.00 to 30.00	20.00 to 25.00
" No. 1.....	15.00 to 20.00	..... to	15.00 to 20.00	12.00 to 15.00
" Lower grades.....	6.00 to 10.00	..... to	6.00 to 10.00	4.00 to 8.00
Bride, 'Maid, Golden Gate, F. & S.	8.00 to 12.00	..... to	8.00 to 10.00	6.00 to 8.00
" " " Extra.....	6.00 to 8.00	..... to	6.00 to 8.00	5.00 to 6.00
" " " No. 1 & lw. gr.	4.00 to 6.00	..... to	4.00 to 6.00	1.00 to 3.00
Liberty, Richmond, Fan. & Sp.	10.00 to 12.00	..... to	12.00 to 20.00	10.00 to 15.00
" Lower grades.....	6.00 to 8.00	..... to	6.00 to 10.00	6.00 to 8.00
Chatenay, Morgan, Fan. & Sp.	10.00 to 12.00	..... to	8.00 to 10.00	6.00 to 8.00
" Lower grades.....	6.00 to 8.00	..... to	3.00 to 6.00	3.00 to 4.00
Killarney, Wellesley, Fan. & Sp.	10.00 to 12.00	..... to	10.00 to 15.00	8.00 to 12.00
" Lower grades.....	6.00 to 8.00	..... to	5.00 to 8.00	3.00 to 5.00
CARNATIONS				
Fancy and Novelties.....	..... to 3.00	..... to	4.00 to 5.00	2.00 to 3.00
Ordinary.....	1.50 to 2.00	..... to	2.00 to 3.00	1.00 to 1.50
MISCELLANEOUS				
Violets, Double.....	..... to .50	..... to .....	.40 to .50	.25 to .50
" Single.....	..... to .50	..... to .....	.40 to .50	.25 to .50
Cattleyas.....	40.00 to 50.00	..... to .....	..... to 75.00	35.00 to 50.00
Paper Wh. Nar., Rom. Hy., Freesia	3.00 to 5.00	..... to	3.00 to 4.00	1.50 to 2.00
Tulips, Daffodils.....	2.00 to 5.00	..... to	4.00 to 5.00	1.00 to 2.00
Lilies.....	10.00 to 15.00	..... to	10.00 to 12.00	8.00 to 12.00
Lily of the Valley.....	3.00 to 4.00	..... to	3.00 to 4.00	2.00 to 4.00
Gardenias.....	40.00 to 50.00	..... to .....	..... to 25.00	..... to 25.00
Mignonette.....	4.00 to 8.00	..... to	2.00 to 4.00	1.00 to 2.00
L. lacs (too bunches).....	..... to .....	..... to	50.00 to 75.00	50.00 to 75.00
Adiantum.....	1.00 to 1.50	..... to	1.00 to 1.50	1.00 to 1.50
Smilax.....	12.00 to 15.00	..... to	20.00 to	12.00 to 15.00
Asparagus Plumosus, strings.....	25.00 to 50.00	..... to	50.00 to 75.00	..... to 50.00
" & Spren. (100 bchs.)	25.00 to 50.00 to	50.00 to 75.00	35.00 to 50.00

POEHLMANN BROS. CO.

Grow and Ship the Finest

AMERICAN BEAUTIES

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35-37 Randolph St., CHICAGO, ILL.

The Florists' Supply House of America

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BRUNNERS & BEAUTIESand Full Cuts of All Leading
Standard Crops**FOR EASTER****S. S. PENNOCK-MEEHAN CO.****THE WHOLESALE FLORISTS OF PHILADELPHIA**

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Store closes at 8 p. m.

**Have YOU TRIED the New
"MARKET"**Things are humming once more in the vicinity of
13th and Filbert Sts. Messrs. Berger Bros. are now
comfortably established in their new quarters, number**1305**and doing the biggest business in their history. Visi-
tors welcome. Their motto:**"Good service and a square deal all round."****BERGER BROS.,** Wholesale Florists
1305 Filbert Street, **PHILADELPHIA****CUT FLOWER MARKET REPORTS**

BOSTON Easter topics are now up-
permost in the minds of
the flower people and it
is not likely that there will be much
change in market conditions during
the week that now intervenes between
us and the great floral holiday. The
tension that has prevailed on Ameri-
can Beauty and some other roses has
come to an end and the receipts are
increasing daily. Other flowers are in
good supply—violets and carnations
somewhat reluctant to move. The lily
situation is a source of solicitude
generally, it being apparent that there
will be no over supply and possibly
a famine of good blooms

Monday opened up with
disagreeable weather,
which continued till
Thursday, and stock accumulated fast,
but beginning with Thursday, things
looked bright for a good balance of
week's business, and stock began to
move at a lively pace. Carnations,
lilies, roses and bulbous stock being
very plentiful, a good portion of the
three days' surplus was sold at good
prices, considering the amount on
hand. White carnations were in
heavy demand for St. Patrick's day,
and prices held firm. On Monday, the
18th, the market brightened up con-
siderable. Violet, carnations and
other stock were well in demand, and
the outlook for a good week's busi-
ness is excellent.

The trade are now on
COLUMBUS the jump getting
everything ready for
a great Easter business. We are in
fine shape as regards flowering plants,
as compared with a year ago when
there were practically no good plants
in the city. The sunny weather in-
sures all ample quantity of roses, car-
nations and other stock; so we all
feel that conditions are very favorable
for a great business. It is too early
at this writing to say very much about
Easter prices which will go into
effect March 26. From present ap-

pearances we will be able to keep
them low enough, to insure a great
volume of business. Lilies will be the
short item here; the disease has cut
into them badly; I should say at least
forty per cent. Harrisiiis have done
the best.

A review of the local
DETROIT trade finds every florist
progressive, with stock
on the scarcity list except violets and
bulbous material. The outlook for the
Easter supply is not changed mate-
rially. Lilies will be plentiful, but
roses and carnations not sufficient.
Trade in all kinds of potted plants is
also very brisk, with a shortage in
5 inch and 6 inch Boston ferns.

Favorable weather
INDIANAPOLIS the past week
brought good cut
flower and plant trade which made
up in great part for slowness the
previous week. There is still a scarcity
of good Beauties; other roses still
maintain the usual season's standard
of quality. Abundance of stock in all
lines is to be had, the quality of which
could hardly be improved upon. While
Easter is a little early this year, the
growers all seem to be prepared for
it. It is evident that the lily supply
will not be any too heavy. Green
goods are in strong demand, compared
with the supply, Easter plants look
promising with all the growers.

Receipts of all stand-
NEW YORK and varieties are
growing daily in size
and also show a gratifying improve-
ment in quality. American Beauty
roses have turned the corner with a
rush. Considering their extreme scar-
city up to one week ago the overturn
seems almost incredible and, at the
present rate of increase, the chances
are excellent for a bountiful supply of
Beauties at reasonable figures. Violets
are at present the most dejected item
on the list. The street fakirs take by
far the greater part of the stock re-
ceived. The late spring combined

with the early date of Easter assures
a supply of good violets for that oc-
casion such as has rarely, if ever,
been available. As to their disposal
the weather on Easter morning will
have something to say.

Beauties are more
PHILADELPHIA plentiful and of
slightly better
quality. Other roses are in abundant
supply and of generally excellent qual-
ity, with the exception of Killarney,
which is a little off color. Prices are
easier. Prices on carnations are low,
although fairly steady. The quality is
excellent and the supply all the mar-
ket will absorb. The outlook for
Easter lilies is that good prices will
be realized for choice stock from now
on. Much of the product is short
stemmed this year. Violets, lily of
the valley, tulips, mignonette, lilac
and other standard items are plentiful
and good, but without any feature of
special interest. Easter plant buying
is now proceeding briskly. The wide-
awake buyers believe in engaging
their supplies well ahead.

There has been no
WASHINGTON noticeable change
in the condition
of the market, owing to the bright days
of the past week. Flowers are still
superabundant, and there is every in-
dication that they will remain so un-
til after Easter, which, it is hoped,
will relieve the market of much of its
surplus. Saint Patrick's Day was
ideally beautiful, and the usual amount
of novelties were shown on the retail
counter. Azaleas, bulbous stock and
lilacs are still plentiful and move
slowly. Some of the retailers have
been to Philadelphia this week to con-
tract for Easter goods.

INCORPORATED.

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and Beaven's Fadeless Sheet Moss. Write for Samples.**E. A. BEAVEN, Evergreen, Ala.**

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COMMISSION
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NEW YORK****TELEPHONE 167
MADISON SQ.****All Grades of Flowers for All Grades of Buyers****NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY**

	Last Half of Week ending March 18 1907	First Half of Week beginning Mar. 18 1907		Last Half of Week ending March 18 1907	First Half of Week beginning Mar. 18 1907
Roses			Carnations, Ordinary	1.00 to 1.50	1.00 to 1.50
Am. Beauty, fan and sp.	25.00 to 35.00	25.00 to 35.00	Violets, double	.20 to .50	.20 to .50
" extra	20.00 to 25.00	20.00 to 25.00	" single	.15 to .35	.20 to .35
" No. 1	10.00 to 15.00	10.00 to 15.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
" Lower grades	2.00 to 6.00	1.00 to 6.00	Pap. Wh. Nar., Rom. Hy., Freesia	1.00 to 2.00	1.00 to 2.00
Bride, 'Maid, Golden Gate, fan & sp	6.00 to 8.00	6.00 to 10.00	Tulips, Daffodils	.50 to 2.00	.50 to 2.00
" " " Extra	4.00 to 5.00	4.00 to 5.00	Lilies	10.00 to 12.00	10.00 to 12.00
" " " No. 1 & lw. gr.	1.00 to 3.00	1.00 to 3.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Liberty, Richmond, fancy & special	15.00 to 25.00	15.00 to 25.00	Gardenias	10.00 to 25.00	10.00 to 25.00
" lower grades	3.00 to 12.00	3.00 to 10.00	" Rignonette	1.00 to 8.00	1.00 to 8.00
Chatenay, Morgan, fancy and spec.	6.00 to 8.00	6.00 to 8.00	Lilacs (too bunches)	..... to .....	..... to
" lower grades	1.00 to 3.00	1.00 to 3.00	Adiantum	.50 to 1.00	.50 to 1.00
Killamey, Wellesley, fan. and spec.	10.00 to 12.00	8.00 to 12.00	Smilax	12.00 to 20.00	12.00 to 20.00
" lower grades	2.00 to 6.00	2.00 to 6.00	Asparagus Plumosus, strings	20.00 to 35.00	20.00 to 35.00
Carnations, Fancy and Novelties	2.00 to 4.00	2.00 to 4.00	" " & Spreng. (too bchs.)	15.00 to 25.00	15.00 to 25.00

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Furnish best stock at fair prices all the year round Send for quotations on fall orders

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EXTRA FINE FANCY and DAGGER FERNS \$2.00 per 1000

DISCOUNT ON LARGER ORDERS

GREEN and BRONZE GALAX, \$1.25 per 1000, LEUCOTHOE SPRAYS, \$1.00 per 100, \$7.50 per 1000
\$7.50 Case of 10,000 Let us have your standing order for Fern. BOXWOOD 20c lb., 50 lbs. \$8.50

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Michigan Cut Flower Exchange

Incorporated

Send for Our Weekly Price List on Cut Flowers

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Richmond Roses and Rich Flowers
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Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Glassware Decorative Greens and Florists' Requisites.

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Best Flowers

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NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000.

Case of 10,000, \$7.50.

Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

\$2.00 per 1000.



Best Southern Smilax, \$3.50 and \$7 per case.
Headquarters for all FLORISTS' SUPPLIES. Wire Designs,
Cut Wire, Letters, Immortelles, Cypas Leaves, Wheat
Sheaves, Ribbons, Corrugated Boxes, etc.
LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 15 Province St.,
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WHOLESALE FLOWER MARKETS.

PER 100.
TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	March 19		March 17		March 18		March 18	
ROSES								
Am. Beauty, Fan. and Sp.....	40.00	to 50.00	50.00	to 75.00	50.00	to 75.00	40.00	to 50.00
“ Extra	30.00	to 35.00	20.00	to 40.00	25.00	to 45.00	25.00	to 30.00
“ No. 1.....	20.00	to 25.00	12.00	to 15.00	20.00	to 25.00	8.00	to 10.00
“ Lower grades.....	8.00	to 10.00	8.00	to 12.00	3.00	to 5.00	6.00	to 8.00
Bride, 'Maid, Golden Gate, F. & S.	8.00	to 10.00	10.00	to 15.00	.....	to 10.00	12.00	to 15.00
“ “ “ Extra.....	6.00	to 8.00	6.00	to 8.00	.....	to 8.00	8.00	to 10.00
“ “ “ No. 1 & lw. gr.	4.00	to 5.00	4.00	to 6.00	6.00	to 8.00	5.00	to 6.00
Liberty, Richmond, Fan. & Sp....	8.00	to 10.00	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00
“ “ “ Lower grades.....	4.00	to 6.00	5.00	to 8.00	5.00	to 10.00	6.00	to 10.00
Chatenay, Morgan, Fan. & Sp....	8.00	to 10.00	10.00	to 15.00	10.00	to 12.00	10.00	to 15.00
“ “ “ Lower grades.....	4.00	to 6.00	6.00	to 8.00	5.00	to 10.00	5.00	to 10.00
Killarney, Wellesley, Fan. & Sp...	8.00	to 10.00	10.00	to 15.00	.....	to 10.00	10.00	to 15.00
“ “ “ Lower grades.....	4.00	to 6.00	6.00	to 8.00	.....	to 10.00	6.00	to 10.00
CARNATIONS								
Fancy and Novelties.....	3.00	to 4.00	3.00	to 4.50	3.00	to 3.50	4.00	to 5.00
Ordinary.....	1.50	to 2.00	1.50	to 2.50	1.50	to 2.00	2.00	to 2.50
MISCELLANEOUS								
Violets, Double.....	.40	to .50	.50	to .75	.40	to .75	.50	to 1.00
“ Single .....	.40	to .50	.50	to .75	.20	to .50	.25	to .50
Cattleyas.....	.....	.....	50.00	to 100.00	.....	.....	.....	.....
Paper Wh. Nar., Rom. Hy., Freesia	.....	to 3.00	2.00	to 3.00	2.00	to 3.00	3.00	to 4.00
Tulips, Daffodils	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00	3.00	to 4.00
Lilies.....	12.50	to 15.00	15.00	to 18.00	5.00	to 15.00	12.00	to 15.00
Lily of the Valley.....	.....	to 4.00	2.00	to 4.50	3.00	to 4.00	2.00	to 4.00
Gardenias.....	.....	.....	.....	.....	25.00	to 35.00	.....	.....
Mignonette.....	2.00	to 3.00	6.00	to 8.00	2.00	to 5.00	4.00	to 6.00
Lilacs (100 bunches).....	.....	.....	.....	.....	.....	.....	50.00	to 100.00
Adiantum.....	.....	to 1.00	1.00	to 1.50	.50	to 1.50	1.00	to 1.50
Smilax.....	.....	to 15.00	15.00	to 18.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, strings.....	40.00	to 50.00	50.00	to 60.00	40.00	to 60.00	30.00	to 50.00
“ “ & Spren. (100 bchs.)	to 25.00	30.00	to 40.00	25.00	to 30.00	20.00	to 40.00
Peas.....60	to 1.00

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3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
6 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

Write for samples and prices in car load lots.

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Achyranthes, yellow, mottled red, 2 1-2 in., 3c. Hammerschmidt & Clark, Medina, Ohio.

ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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AMPELOPSIS.

5,000 Ampelopsis Veltchii, pot grown, Dormant, long Tops, \$4.00 per 100, and clean seed \$1.50 per lb. Cash. Benj. Connell, Florist, West Grove, Pa.

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1012 Ontario St., Philadelphia.
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A. Leuthy & Co., Roslindale, Mass.
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ARTIFICIAL CARNATION CALYX

Maxfield & Dimond, Warren, R. I.
P. O. Box 304-D.
For page see List of Advertisers.

ASPARAGUS

Albert M. Herr, Lancaster, Pa.
Asparagus Robustus.
For page see List of Advertisers.

Asparagus Sprengeri, 2 in., \$2.25 per 100. Hammerschmidt & Clark, Medina, Ohio.

Plumosus, 3-in., \$5.00 100; \$40.00 1000. Christ. Winterlich, Cyclamen Specialist, Defiance, Ohio.

Asparagus plumosus nanus and Sprengeri, 2 1-2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Easting, 385 Elliott St., Buffalo, N. Y.

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ASTERS.

Novae-Angliae Asters, strong, \$3.00 per 100; \$25.00 per 1000. Ellsworth Brown & Co., Seabrook, N. H.

Aster Miss Kate Lock, \$1.00 tr. pkt. It's the best aster grown. J. H. Lock, 41 Manchester Ave., Toronto, Ont.

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A. Schultheis, College Point, N. Y.
For page see List of Advertisers.

John Scheepers & Co., 2-6 Old Slip, N. Y.
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A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.

John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

Azaleas, well budded, 50c., 75c., and \$1.00 each. C. Whitton, City Street, Utica, N. Y.

BAUR CARNATION CLIP AND PLIERS

Baur Floral Co., 18 W. 10th St., Erie, Pa.
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Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

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J. E. Felthousen, Schenectady, N. Y.
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C. Elsele, 11th and Roy Sts., Phila.
Spring Bedding Plants.
For page see List of Advertisers.

BEGONIAS

Begonias, mixed, many varieties, 2 1-4 in., 3c. Hammerschmidt & Clark, Medina, Ohio.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

For page see List of Advertisers.

J. M. Thornburn & Co., 33 Barclay St., New York.

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A. T. Boddington, 342 W. 14th St., N. Y.
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Rickards Bros., 37 East 19th St., New York.
For page see List of Advertisers.

H. F. Mitchell Co., Philadelphia.
For page see List of Advertisers.

Johnson Seed Co., 217 Market St., Phila.
For page see List of Advertisers.

John Scheepers & Co., 4-6 Old Slip, N. Y.
For page see List of Advertisers.

Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

Bulbs. Cannas, Dahlias, Gladioli, Oxalis, Madelra and Cinnamon vines, Irls, Peonies. Finest stock. C. Betscher, Canal Dover, Ohio.

Caladium esculentum bulbs, 5x7, \$1.00; 7x9, \$2.00; 9x11, \$4.00; 11x15, \$6.00 per 100. Tuberoses, 4x6, \$1.00 per 100. Cash. C. B. Johnson, Wallace, N. C.

Amaryllis formosissima, 11-13 cm., \$2.00 per 100; \$18.00 per 1000. Bessera elegans, 7-9 cm., \$1.00 per 100; \$9.00 per 1000. Pancratium, spider lily, 12-15 cm., \$3.00 per 100; \$20.00 per 1000. Tigridias, mixed, 7-9 cm., \$2.00 per 100; \$12.00 per 1000. Zephyranthes, white, 7-9 cm., \$1.00 per 100; \$9.00 per 1000. Price includes carriage paid. J. A. McDowell, Ap. 167, City of Mexico.

CACTI

Old Man cactus, 4 to 5 inches high, \$3.00 per doz.; \$22.00 per 100. Carriage paid. J. A. McDowell, Ap. 167, City of Mexico.

CANNAS

A.A. T. Boddington, 342 W. 14th St., N. Y.
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The Conard & Jones Co., West Grove, Pa.
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Cannas, Very fine list. Send list of needs. C. Belscher, Canal Dover, Ohio.

Cannas, Pennsylvania, \$2.00; Niagara, Buttercup, \$5.00 per 100. P. A. Baker, Media, Pa.

50,000 Cannas, fine, \$10 to \$15 per 1000. Best sorts. Write Benj. Connell, West Grove, Pa.

Cannas. Good bulbs, 2 or 3 eyes, Austria, Robusta, Augusta Ferrier, King Edward, Victor Hugo, Morning Star, Paul Marquant, Pennsylvania, Robert Christie, Admiral Courbet, Mlle. Berat, Flamingo, Partenope, Souv. d. A. Crosby, Queen Charlotte, Egandale, \$2.50 per 100; \$22.50 per 1000. Black Beauty, Gladiator, Pres. Meyers, new, like King Humbert, \$4.00 per 100. All kinds mixed, \$1.00 per 100; \$7.50 per 1000. Dahlias, leading kinds named, \$3.50 per 100. Shellroad Greenhouses, Grange, Baltimore, Md.

Cannas, sound roots, 2 to 3 eyes, true to name: Allemania, Austria, Burbank, Italia, Robusta, Metallica, \$1.25 per 100; \$10.00 per 1000. Martha Washington, Florence Vaughan, Wm. Bofinger, Chas. Henderson, Sec. Chabanne, \$1.50 per 100. America, Black Prins, Mrs. Kathie Gray, Pennsylvania, Coronet, \$2.00 per 100. Pierson's Premier, Souv. d. A. Crosby, Queen Charlotte, Egandale, \$2.50 per 100; \$22.50 per 1000. Black Beauty, Gladiator, Pres. Meyers, new, like King Humbert, \$4.00 per 100. All kinds mixed, \$1.00 per 100; \$7.50 per 1000. Dahlias, leading kinds named, \$3.50 per 100. Shellroad Greenhouses, Grange, Baltimore, Md.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.
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S. S. Skidelsky, 824 N. 24th St., Phila.
Rose Pink Enchantress.
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Chicago Carnation Co., Joliet, Ill.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Carnations, Winsor, White Enchantress, Helen M. Gould.

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A. J. Guttman, 43 W. 28th St., New York.
John E. Haines, Bethlehem, Pa.
Carnation Imperial and Pink Imperial.
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F. Dorner & Sons Co., Lafayette, Ind.
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Guttman & Weber, 43 W. 28th St., N. Y.
Carnation Victory.

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Peter Fisher, Ellis, Mass.
Cottage Gardens Co., Queens, N. Y.
Carnation Beacon.

N. Y. Cut Flower Co., 55-57 W. 26th St., New York. J. A. Millang, Mgr.

Carnation Windsor Blooms.
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Harlowarden Greenhouses, Greenport, N. Y.
For page see List of Advertisers.

Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000.

Cash. E. D. Kauback & Son, Malden, Mass. 35,000 square feet covered by Glass.

Send for list of rooted cuttings of new and leading commercial varieties of carnations and chrysanthemums. Wm. Swayne, Kennett Square, Pa.

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CARNATIONS—Continued.

Healthy rooted carnation cuttings Queen Louise, Hill, Gomez, Norway, Boston Market, \$9.00 per 1000. Melody, \$5.00 per 100. Red Lawson, \$15.00 per 100. Lawson, Harlowarden, Mrs. Nelson, \$12.50 per 1000. White Cloud unrooted, \$4.00 per 1000. Wm. Ehmann, Corfu, N. Y.

CEDAR BEAN POLES

1 1-2 inch butt, 5 ft. to 7 ft. long, \$10.00 per 1000; 2 inch butt, 8 ft. long, \$15.00 per 1000; 2 1-2 inch butt, 10 to 12 ft. long, \$22.50 per 1000. H. R. Akers, Chatsworth, N. J.

CHRYSANTHEMUMS

Eggeling Floral Co., 1653 S. Grand Ave., St. Louis, Mo.
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Charles H. Totty, Madison, N. J.
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Harlowarden Greenhouses, Greenport, New York.
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Chicago Carnation Co., Joliet, Ill.
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Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums, Jeanne Nonin, C. Touset, Mrs. Brice, Roi d'Italie, Fred Lemon, Merza, Cobbold, M. Ware, Oct. Sunshine, Beauty of Sussex, \$2.00 per 100. Glory Pacific, Kalb, Monrovia, Polly Rose, Alliance, Mrs. Robinson, J. Shrimpton, Bride, Bonnafton, Halliday, Duckham, Cullingford, Mrs. Chamberlain, Arline, Ermenilda, W. Bonnafton, Princess, M. Friend, Nellie Pockett, Lincoln, W. Jones, G. Wedding, Ben Wells, Yellow Eaton, Engue hard, Mrs. Weeks, Appleton, G. Trophy, Florence Teal, A. Balfour, Intensity, Mme. Perrin, \$1.50 per 100; \$12.50 per 1000. Wm. Ehmann, Corfu, N. Y.

CINERARIAS.

Cinerarias, 5 in., \$15.00 per 100. C. Whitton, City Street, Utica, N. Y.

CLEMATIS

Clematis Paniculata. Strong field-grown plants, \$15.00 per 100; strongest, \$30 per 100. Quotations on larger quantities. Est. David Fisher, Woburn, Mass.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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CYCLAMEN.

Cyclamen, 4 in., \$10.00; 5 in., \$15.00 per 100. C. Whitton, City Street, Utica, N. Y.
Giant Hybrids transpl., ready for 2 in. and 3 in., \$3.50 100; \$30.00 1000. Plants grown of seed taken from the cream of my well known strain. Christ. Winterich, Cyclamen Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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J. K. Alexander, E. Bridgewater, Mass.
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Harlowarden Greenhouses, Greenport, New York.
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DAHLIAS—Continued.

Henry A. Dreer, 714 Chestnut St., Phila.
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THE DAHLIA MANUAL.

An up-to-date work on dahlias and dahlia culture, covering the whole field. Illustrated. Price, 35c. W. W. WILMORE, Box 382, Denver, Colo.

I am again ready to handle your business. Only the cream of varieties handled. Standards and novelties, including Mrs. Winters, Mme. Dael, Navajo, Lonsdale, Dainty, Kriemhilde, etc. Catalogue of dahlias, hollyhocks, peonies and hardy plants now ready. W. W. WILMORE, Box 382, Denver Colo.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaena indivisa, 5 in., \$2.00 per doz. W. C. Rockwell, Bradford, Pa.

Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

EASTER FLOWERING PLANTS

A. Schulthels, College Point, N. Y.
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Peter Henderson & Co., 35 & 37 Cortlandt St., New York.

A. Leuthy & Co., Roslindale, Mass.
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Wm. C. Smith, 61st & Market St., Phila.
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Godfrey Aschmann, Philadelphia.
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Bobbink & Atkins, Rutherford, N. J.

John McKenzie, No. Cambridge, Mass.
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ECHEVERIAS

Echeverias, 15 to 20 cm. in cl., \$3.00 per 100; \$22.00 per 1000. Carriage paid. J. A. McDowell, Ap. 167, City of Mexico.

FERNS

A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitmanii.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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FERTILIZERS

A sample 100 lb. bag of BLACHFORD'S CELEBRATED FERTILIZER, PLANT GROWER AND LAND RENOVATOR only \$2.75. This best grade Fertilizer is composed solely of pure Rose Growers' Bone Meal, Nitrate of Soda, Peruvian Guano, Sulphate of Ammonia, Sulphate of Potash and Gypsum in the correct proportions and in the most soluble condition. For benches and potting plants, for roses, carnations, lilies, mums, etc., many florists say it has never been surpassed. Particulars for florist and truck gardeners sent FREE on application. BLACHFORD'S CALF MEAL FACTORY, Waukegan, Ill.
Established at Leicester, England in 1800.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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FLORISTS SUPPLIES

N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.
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H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.
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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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J. Stern & Co., 125 N. 10th St., Phila.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
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Thos. Young, Jr., 41 W. 28th St., N. Y.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Young & Nugent, 42 W. 28th St., N. Y.
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W. H. Donohoe, 2 W. 29th St., New York.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.
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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Ave and 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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FLOWER POTS

W. H. Ernest, 23th and M Sts., Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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Say! Send to Feustel, for prices on Red flower pots. Geo. E. Feustel, Fairport, Ia.

Syracuse Red Pots.
Syracuse Pottery Co., Syracuse, N. Y.
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GALAX

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
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In writing to Advertisers kindly mention Horticulture

GALAX—Continued

Caldwell the Woodsman Decorating Co.,
Evergreen, Ala.
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Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

GERANIUMS

R. Vincent, Jr., & Son, White Marsh, Md.
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J. E. Felthousen, Schenectady, N. Y.
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Geraniums. 10 varieties 2 1/4-in., \$2.50 per 100. Mme. Sallerol rooted cuttings, \$1.00; 2-in., \$2.00 per 100. Wm. Doel, Pascoag, R. I.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.
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B. Hammond Tracy, Cedar Acres, Wenham, Mass.
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Gladioli. C. Betscher, Canal Dover, O.
Gladioli, named varieties. Write for list. E. E. Stewart, Rives Junction, Mich.

Gladiolus Augusta, 1st size, \$12.00; 2nd size, \$8.00 1000. Cash. Rowehl & Granz, Hicksville, N. Y.

Augusta White, small sizes. \$2.00 to \$3.50 per 1000. Joan Fay Kennell, Chilli, N. Y.

GLASS

Boston Plate & Window Glass Co., Boston.
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Peerless Glass Repair Clamp; you need them—100 for \$1.00. A. Klokner, Wauwatosa, Wis.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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Kling Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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Weathered Co., Box 789, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GREENHOUSE BRACKETS

Buxton & Allard, Nashua, N. H.
Economy Greenhouse Bracket.
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HAMMOND'S COPPER SOLUTION

Benj. Hammond, Fishkill-on-Hudson, N. Y.

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.
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The Kervan Co.,

20 W. 27th St., New York.

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

Fancy Ferns.

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E. A. Reaven, Evergreen, Ala.

Fadeless Sheet Moss.

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HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Funkia variegata clumps, \$6.00 per 100.
H. Pladeck, Elmhurst, N. Y.

Yucca Filamentosa, No. 1, 4c.; Iris Sibirica, 3c. Ellsworth Brown & Co., Seabrook, N. H.

Our Catalogue of Hardy Plants are classified according to the height they grow. Mailed free on request. John R. Clarke & Co., Bellevue Greenhouses, 1700 Centre St., West Roxbury, Mass.

HEATING APPARATUS

Lord & Burnham Co.,

1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Kroeschell Bros., 35 Erie St., Chicago.
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HELIOTROPES.

Heliotropes (dark), good stock, strong and well rooted, R. C., 60c. 100; \$5.00 per 1000. Cash. J. P. Cannata, Mt. Freedom, N. J.

HOLLYHOCKS

Hollyhocks. Large field-grown plants, \$3.00 per 100. Double in separate colors of red, white, pink, yellow and maroon; also the Allegheny strain. Send for catalogue of hollyhocks, dahlias and hardy plants. W. W. WILMORE, Box 382, Denver, Colo.

HONEYSUCKLES.

Golden Honeysuckles, 7c. Ellsworth Brown & Co., Seabrook, N. H.

HORICUM

Hammond's P. & S. S. Works, Fishkill-on-Hudson, N. Y.

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HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.

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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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HOT WATER CIRCULATOR

Holly-Castle Co., 170 Summer St., Boston.
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HYDRANGEAS.

Hydrangea paniculata grandiflora, 3 ft., 3c. Ellsworth Brown & Co., Seabrook, N. H.

INSECTICIDES.

W. H. Kuld, Norwood, Mass.

Century Insecticide.

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KENTIAS

Godfrey Aschmann, 1012 Ontario St., Phila.
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A. Leuthy & Co., Roslindale, Mass.

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LAWN AND CEMETERY VASES

Kramer Bros. Foundry Co., Dayton, Ohio.

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Clipper Lawn Mower Co., Dixon, Ill.

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J. Breitmeyer's Sons, Detroit, Mich.

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George H. Cooke, Washington, D. C.

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Samuel Murray, 1017 Broadway,

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Gude Bros. Co., 1214 F St.,

Washington, D. C.

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Eyres, 11 N. Pearl St., Albany, N. Y.

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Young & Nugent, 42 W. 28th St., N. Y.

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Mills, the Florist, Jacksonville, Fla.

Telegraph or mail orders promptly filled.

Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd.,

St. Louis, Mo.

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P. J. Hauswirth (temporary address) 13

Congress St., Chicago.

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William J. Smyth, Michigan Ave. and 31st

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Wm. H. Rock Flower Co., Kansas City, Mo.

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Park Floral Co., Denver, Colo.

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Thos. F. Galvin, 124 Tremont St., Boston.

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W. H. Donohoe, 2 W. 29th St., New York.

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Jacob Schulz, 644 4th Ave., Louisville, Ky.

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LILACS

Philadelphus, Syringa grandiflora, 3 years, strong, \$15.00 per 100. John Stamm, Hutchinson, Kan.

LILY BULBS

Lilium superbum, extra large bulbs, 25c. each; \$1.50 per 10; \$8.00 per 100. L. E. Williams, Nottingham, N. H.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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NICO-FUME

Ky. Tobacco Product Co., Louisville, Ky.

NIKOTEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK

John Waterer & Sons, Ltd.,

American Nursery, Bagshot, England.

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Cottage Gardens Co., Queens, N. Y.

Specimen Nursery Stock.

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Elizabeth Nursery Co., Elizabeth, N. J.

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The F. E. Conine Nursery Co., Stratford,

Conn.

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The Wm. H. Moon Co., Morrisville, Pa.

American Arborvitae.

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The New England Nurseries Co., Inc., Bedford,

Mass.

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Cut leaf Staghorn sumach, large stock,

6c. to 15c.; Kudzu Vines, 15c. Edw. Teas,

Joplin, Mo.

5,000 Japan Barberry seedlings, strong,

\$10.00 per 1000. Euonymus radicans, 1 ft.

transplanted, \$4.00 per 100. Spirea Anthony

Waterer, 2 ft., \$8.00 per 100. Golden Syringa,

20 in., \$8.50 per 100. B-B Nursery,

West Newton, Mass.

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ORCHID PLANTS

- Lager & Hurrell, Summit, N. J.
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- Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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- Julius Roehrs Co., Rutherford, N. J.
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- Carrillo & Baldwin, Secaucus, N. J.
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- A. Held, 11-19 William St., New York.
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- Seibrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.
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- Jos. A. Manda, 191 Valley Road, W.
Orange, N. J.
Orchids, Orchid Baskets, Peat.
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- Laella anceps, \$4.00 per doz.; \$25.00 per
100. Carriage paid. J. A. McDowell, Ap.
167, City of Mexico.

PALMS

- A. Leuthy & Co., Roslindale, Mass.
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- Seibrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.
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PANSIES

- Pansy plants; strong transplanted, \$10.00
per 1000. F. A. Baller, Bloomington, Ill.

PATENTS

- Siggers & Siggers, Washington, D. C.
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PEONIES

- Peonies, fine assortment, \$10.00 per 100.
F. A. Baller, Bloomington, Ill.
- Peonies, 1200 sorts. Greatest list any-
where. C. Betscher, Canal Dover, Ohio.
- Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfield, West Point,
Neb.

PETUNIAS

- The Yates Floral Co., Canajoharie, N. Y.
Scranton Florists' Supply Co., Scranton,
Penn.
- Double Petunia the Queen.
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PHLOXES

- Hardy phlox, best assortment, standard
varieties, 2-year, field clumps, \$3.00 per
100; \$25.00 per 1000. John Stamm, Hutch-
inson, Kan.

POT HANGERS

- Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PLANT BED CLOTH

- Mineralized Rubber Co., 18 Cliff St., N. Y.
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PRIVET

- 10,000 California Privet 1-year, well root-
ed. \$1.25 per 100; \$10.00 per 1,000. Ad-
dress W. F. Allen, Salisbury, Md.
- California privet, all sizes. J. T. Lov-
ett, Little Silver, N. J.

PRUNING SHEARS

- Rhodes Mfg. Co., Grand Rapids, Mich.

RHODODENDRONS

- John Waterer & Sons, Ltd., American
Nursery, Bagshot, Eng.
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ROSES

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Hardy Roses, H. T. Roses and Ramblers.
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Rose Aurora.
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Grafted Roses.
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- Bay State Nurseries, No. Abington, Mass.
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- S. S. Pennock-Meehan Co., Philadelphia.
- A. N. Pierson, Cromwell, Conn.
Grafted Roses, Own-Root Beauties.
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- Chicago Carnation Co., Joliet, Ill.
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- Leedle Floral Co., Springfield, Ohio.
- Eastern Nurseries, Jamaica Plain, Mass.
Rose Frau Karl Druschki.
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- J. H. Troy, New Rochelle, N. Y.
Hardy Roses.
- Dingee & Conard Co., West Grove, Pa.
Hardy Roses; Killarney on Own Roots.
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- Low-budded roses, No. 1, \$95.00; No.
11-2, \$65.00 1000. H. T. Jones, Elizabeth,
N. J.
- American Beauties, 2 1-2 in., \$8.00 per
100; \$75.00 per 1000. Chas. H. Totty, Mad-
ison, N. J.
- Roses, two-year-old, field grown, Kaiserin
Augusta Victoria, \$12.00 per 100. Clean,
well-rooted stock. Josiah Young, 375 River
St., Troy, N. Y.
- Own root roses, 2 years. C. Ramblers.
\$7.00; Dorothy Perkins, P. W. and Y. Ram-
blers, \$5.00; H. P. roses and Baby Ram-
blers, \$8.00 per 100. Gilbert Costich, Roch-
ester, N. Y.
- Baby Rambler roses, fine dormant stock,
one year, \$12 per 100, 2 1-4 in. pot plants,
extra well rooted, \$4 per 100, \$30 per M.
Orders booked for delivery now or any
time up to late spring. Samples free.
Brown Brothers Company, Rochester, N. Y.

RUBBERS

- Rubbers, strong plants, 4-in., 20c.; 5-in.,
extra strong, 25c. Cash. Fuhlbruegge Bros.,
Winona, Minn.

SALVIA ZURICH

- Perennial Gardens Co., Toledo, O.
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- Joseph Breck & Sons
51 and 52 N. Market St., Boston, Mass.
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- W. Atlee Burpee & Co., Philadelphia.
"New Creations" in Bush Limas.
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- A. T. Boddington, 342 W. 14th St., N. Y.
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- James Vick's Sons, Rochester, N. Y.
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- Hjalmar Hartmann & Co.,
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- Rickards Bros., 37 E. 19th St., New York.
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- Johnson Seed Co., 217 Market St., Phila.
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- R. & J. Farquhar & Co., 6-7 So. Market St.,
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Francisco, Calif.
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- ASTER SEEDS, home grown. Bargain
list ready. H. W. Koerner, Sta. B, Mil-
waukee, Wis.
- I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.
- Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and
Tree Seeds.

SHEEP MANURE

- R. & J. Farquhar & Co., 6 and 7 So. Mar-
ket St., Boston.
Pulverized Sheep Manure.
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SHEET MOSS

- E. A. Beaven, Evergreen, Ala.
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SHRUBS.

- Japanese Wistarias, 8c.; Berberis Thun-
bergii, 12 to 18 in., 3 1-2c.; Hibiscus, C.
Eye and Pink, 3c.; Norway Spruce, 1 1-2
to 2 1-2 ft., 8c. Ellsworth Brown & Co.,
Seabrook, N. H.

SMALL FRUIT PLANTS

- Dewberry plants, Lucretia and Austin,
\$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00
per 1000, \$25.00 per 5000. Turner red rasp-
berry plants, \$6.00 per 1000, \$25.00 per 5000.
W. F. Allen, Salisbury, Md.

SMILAX

- Smilax seedlings, fall-sown, \$3.00 per
1000. F. A. Baller, Bloomington, Ill.
- Smilax, 3 in., \$1.50 per 100. P. A. Baker-
Media, Pa.

SPHAGNUM MOSS

- Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

SPIREA

- Spiraea, extra fine clumps in leading va-
riety. F. W. O. Schmitz, Prince Bay, N. Y.
- Spiraea, Van Houttii, 2 to 3 ft., 6c.; 18
to 24 in., 4c. Ellsworth Brown & Co.,
Seabrook, N. H.

STEAM TRAP

- E. Hippard, Youngstown, O.

STOCKS

- Stocks. Snowflake or Dwarf Bouquet,
Benary's strain, 90 per cent. double, white,
blue, red, each separate, for Easter bloom,
2-inch, \$2.00 per 100; \$15.00 per 1000; seeds
cheap. Cash. Shellroad Greenhouses,
Grange, Baltimore, Md.

STRAWBERRY PLANTS

- Strawberry plants, 90 best varieties,
stock unexcelled. Ask for prices on what
you want. W. F. Allen, Salisbury, Md.

THERMOSTATS

- Fire and Frost Alarm. Heat regulators.
Brown Alarm Co., Denver, Colo.

TOMATO SEEDS

- Wm. Sim, Cliftondale, Mass.
Comet Tomato.
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VEGETABLE PLANTS

- 50,000 large 4-year old Barrs Mammoth
Asparagus roots, \$6.00 per 1000; \$25.00 per
5000 (500 will fill a sugar barrel.) Address
W. F. Allen, Salisbury, Md.
- 500 to 1000 2 1-2 in. Pot Plants, Tomato.
"The Comet." Strong and ready for shift.
\$3.50 per 100. Cohanzie Carnation Green-
houses, New London, Conn.

In writing to Advertisers kindly mention Horticulture

VEGETABLE PLANTS—Continued.

Small seed-bed to large transplanted vegetable plants ready for field. Best sorts cabbage, cauliflower, lettuce, etc. Moderate prices. Let us send you price lists. Frank Shearer & Son, Binghamton, N. Y.

VENTILATING APPARATUS

Lord & Burnham Co., 1133 Broadway, N. Y.
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The Advance Co., Richmond, Ind.
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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VINCAS

10,000 vincas 2-12 in., fine, \$2.50 per 100; \$20.00 per 1000. R. Cuttings same, \$1.00 per 100; \$7.00 per 1000. Cash, please. Benj. Connell, West Grove, Pa.

VIOLETS

H. R. Carlton, Willoughby, O.
Violet. Gov. Herrick.
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Princess of Wales Violets. Rooted cuttings, 75c. 100; 2-in. pot plants, \$2.50 Wm. Doel, Pascoag, R. I.

WILD SMILAX

E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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Caldwell the Woodsman Decorating Co., Evergreen, Ala.
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WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 3840 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

Wire work. Get our special price for March. Scranton Florist Supply Co., Scranton, Pa.

WIRE SUPPORTS

The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

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BETWEEN YOU AND ME. What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

GREENHOUSES BUILDING AND CONTEMPLATED.**New.**

Detroit, Mich.—Gust. H. Taepke, two houses.

Northampton, Mass.—H. W. Field, extensions.

Elberon, N. J.—Daniel Guggenheim, two houses.

St. Louis, Mo.—Oakland Floral Co., range of houses.

New Bedford, Mass.—Charles W. Crooks, one house.

LIST OF PATENTS.

Issued February 26, 1907.

- 845,082. Wheeled Plow. Walter P. Hendon, Dallas, Texas, assignor to Emerson Manufacturing Co., Rockford, Ill., a Corporation of Illinois.
- 845,087. Potato Planter. Adrian S. Holcomb, Marilla, N. Y., assignor to Sarah C. Holcomb, Marilla, N. Y.
- 845,169. Plow Attachment. Oliver W. Fisher, Jersey Shore, Pa.
- 845,179. Watering System for Gardens, Fields, and the like. August Koren, Jr., Christiania, Norway.
- 845,195. Cabbage Harvester. George H. Robbins, Racine, Wis.
- 845,218. Cleaning Wheel for Root Harvesting Machines. George F. Conner, Port Huron, Mich.
- 845,221. Drag. Frank Darling, Morris, Ill., assignor of one-half to Andrew Tappen, Morris, Ill.
- 845,254. Plow. Bruce Nunnally, Jacksonville, Fla.
- 845,255. Cultivator. Niles E. Omberg, Palestine, Texas.
- 845,309. Draft Equalizer. Charles H. Matlock, Emden, Ill.
- 845,371. Heating System. John S. C. Nicholls, Boston, Mass.
- 845,669. Plant Rest. Emily W. Thayer, Saxtons River, Vt.

Issued March 5, 1907.

- 846,135. Pruning Implement. John C. O'Brien, Murphytown, W. Va.
- 846,156. Cultivator. William M. Stamps, Newnan, Ga.
- 846,184. Riding Plow. William L. Casady, South Bend, Ind.
- 846,188. Fertilizer Distributer. Samuel K. Dennis and Frank W. Rice, Chicago, Ill., assignors to International Harvester Co., a corporation of New Jersey.
- 846,201. Detachable Harrow Cart. John W. Harmon, Creston, Iowa.
- 846,280. Draft Equalizer. Edwin A. Barry, Sutherland, Iowa.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

HELP WANTED

WANTED—A good designer capable of taking care of 3 small greenhouses and small garden. Of good experience; strictly sober, honest and reliable; well up in English; capable of taking telephone orders. References required. Address J. Fuller, 31 Orchard St., Leominster, Mass.

HELP WANTED**MUNICIPAL CIVIL SERVICE COMMISSION**

299 Broadway.

New York, March 11, 1907.

PUBLIC NOTICE IS HEREBY GIVEN that applications will be received from Monday, March 11, until 4 P. M. Monday, March 25, 1907, for the position of **GARDENER.**

The examination will be held on Friday, April 5, 1907, at 10 A. M.

The examination is open to all citizens of the United States.

For scope of examination and further information, apply to the Secretary.

FRANK A. SPENCER, Secretary.

WANTED—Two experienced greenhouse men for watering, general greenhouse stock. Wages \$13.00 per week. Permanent position to competent men. Peter Henderson & Co., 390 Arlington Ave., Jersey City, N. J.

WANTED—One good man to work in rose houses. Apply to William R. Morris, Wellesley, Mass.

SITUATIONS WANTED

SITUATION WANTED as superintendent and gardener on private estate. Full knowledge and experience in laying out and planting, plant houses, vegetables and fruit outside and under glass. Testimonials. Married; no children. Address S., care HORTICULTURE.

WANTED—Situation as Head Gardener; years of experience in greenhouse and outdoor gardening. Private place. Best references. Address Head, care HORTICULTURE, 11 Hamilton Place, Boston.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

BUSINESS CHANCES

WANTED—A partner for a good wholesale and retail florist business near Boston. Must furnish some capital and be of good character. Address L. G., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—A partner of good character, with small capital, to invest in new insect exterminator at half interest. Address Partner, care HORTICULTURE, 11 Hamilton Place, Boston.

MISCELLANEOUS

New England Lily of the Valley forcers will hear of something advantageous by addressing Jans Schmidt, care of HORTICULTURE, 11 Hamilton Place, Boston.

FOR SALE**FOR SALE**

Desirable greenhouse plant, directly opposite Woodlawn Cemetery, Everett, Mass. Large and increasing demand for funeral designs, bouquets and bedding stuff. Care of lots in the Cemetery, a branch of the business. Fine dwelling house with all modern improvements, 6000 ft. of glass, 45,000 ft. of land. Paying business with open chance to increase. Sold on account of advancing years. Apply to William Christie, Woodlawn Ave., Everett, Mass., or at Horticulture office 11 Hamilton Place, Boston.

FLORISTS' WAGONS FOR SALE

Three florists' open wagons, three florists' top wagons and three sets of harnesses. Can be seen at 1 West 28 St., New York.

EDWARD HICCINS.

FOR SALE—Greenhouse Pipe

4-in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 85 Erie St., Chicago.

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STEAM WATER

What F. R. Pierson says:

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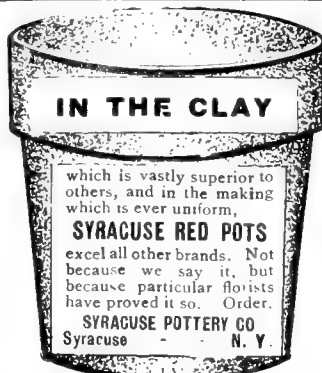
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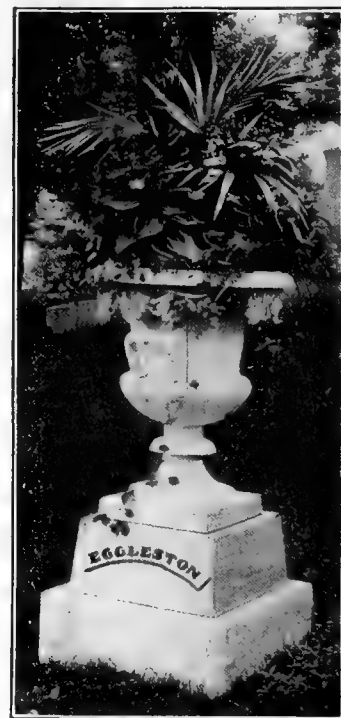
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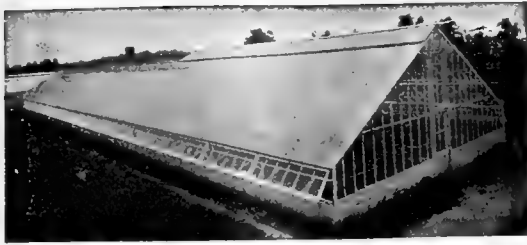
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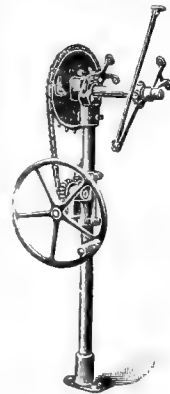
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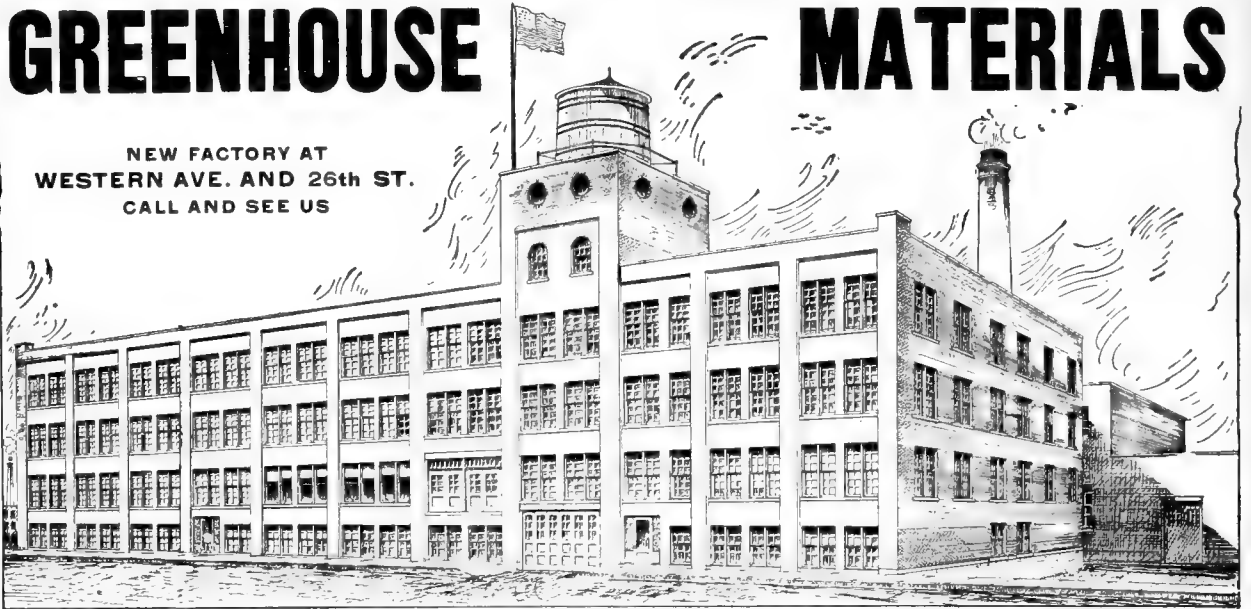
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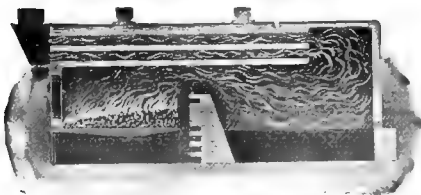
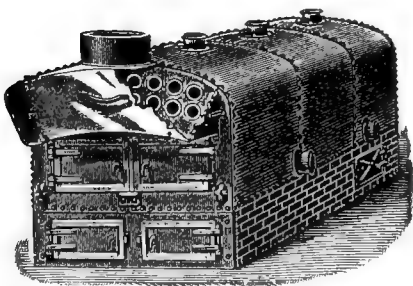


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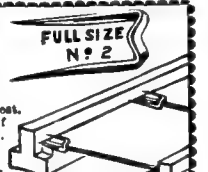
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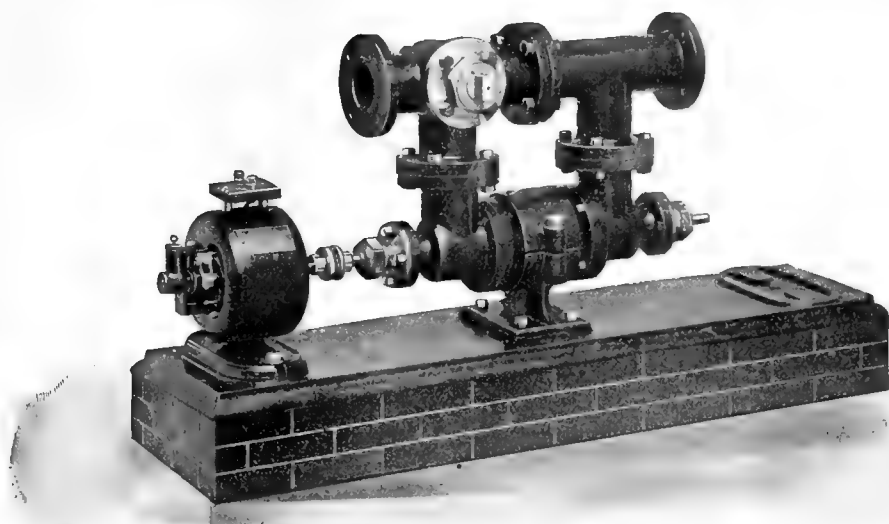
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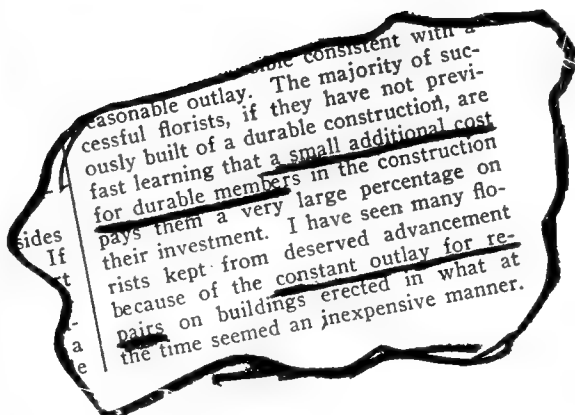
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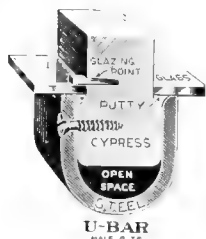
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HORTICULTURE

Vol. V.

MARCH 30, 1907

No. 13



DECORATIVE GROUP AT THE SPRING EXHIBITION, BOSTON
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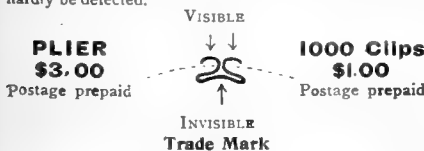
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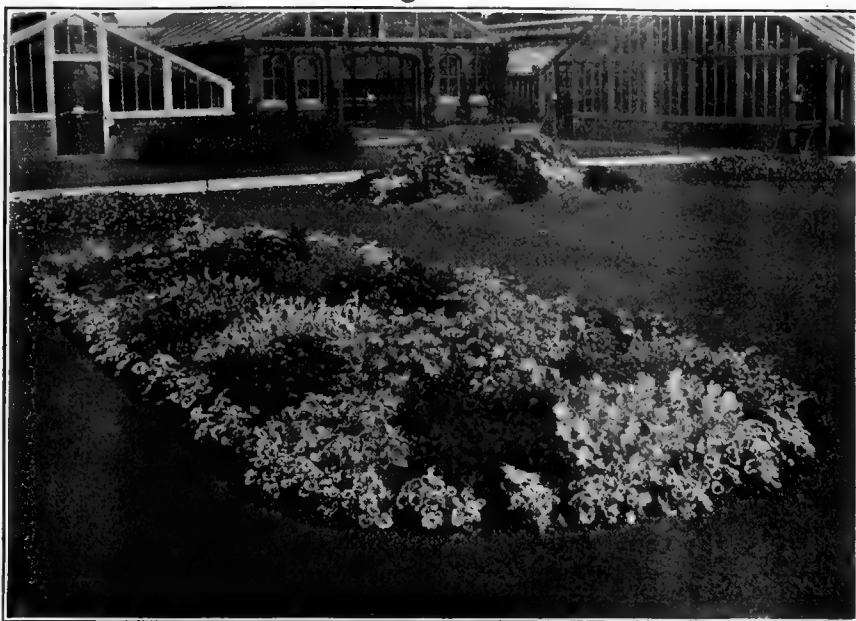
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Plants with Beautiful Foliage

How delightful it is sometimes to turn from the brilliant yet sometimes garish color display in the flower garden made by masses of begonias, geraniums, calceolarias or other summer flowers and to rest the eye on the cool grey leafage of plants that are valuable on account of their foliage alone. Such a bed as this is shown in the accom-



ppanying illustration. On a hot scorching day in summer time flowers of rich and gaudy coloring are apt to pall and one turns with relief to the garden of sub-tropical foliage plants or, in a smaller garden, to the small bed that is filled with the soft greys and cool greens of leaf alone. In a partially shaded spot a mass of color against a background of shrubs is in perfect harmony and delights the eye but in an open sunny spot the colors lose their brilliancy and distract rather than soothe, while in a similar spot a bed planted as shown in the illustration would have exactly the opposite effect. In planting a bed of this sort the aim should be to fill it chiefly with plants whose leaves are of quiet coloring, although it is made more effective perhaps by the inclusion of a few plants of richer leaf tones which serve the purpose of showing the others to the best advantage. Among plants suitable for such a bed are *Cineraria maritima*, *Cerastium tomentosum*, *antennaria*, *Stachys lanata*, *alternanthera*, lavender and rosemary. Some of the

dark-red leaved coleus, the variegated abutilon and geranium, may be used to impart a little brighter color. Even the purple-flowered *Verbena venosa* and heliotrope may be used, for their soft tints associate well with the leafage of the plants above named.

A beautiful half-hardy silvery-leaved conifer, *Pinus canariensis*, was used last year

in beds filled with ornamental foliage plants in the Royal Gardens, Kew, and produced an excellent effect. The final appearance of the bed will depend a good deal upon the way in which it is planted. If the plants are dotted about here and there in twos and threes then the effect will be paltry and unsatisfactory. If, however, they are arranged in carefully disposed groups, as clearly shown in the photograph, then the result will be all that can be desired—masses of soft coloring, distinct in themselves, yet forming part of a harmonious whole. Most of these plants bear clipping well and, while they certainly must not be clipped to such an extent as to give the bed a formal appearance, a little cutting back must be done carefully now and then so as to prevent the stronger growing plants overrunning the weaker.

Harry H. Thomas

A New Race of Hibiscus

Some thirty years ago Thomas Meehan predicted that if a cross could be made between our native mallows, and the tropical hibiscus, that would combine the hardiness of one with the gorgeous blooms of the other, the result would be a great perennial achievement. Many have made attempts to get such a result, and yet it has only been a reality for the past three years.

Ernest Hemming, employed by Thomas Meehan & Sons, Inc., started about eight years ago to experiment on the proposition. He selected good, strong plants of our native hibiscus and the tropical one—*coccinea*—and worked on them for four years. At the close of the fourth year his labors were rewarded with a new type that produced blooms much larger than the parent plants and of more vigorous habit of growth. It was a result above expectations. A member of the Waterer firm (the famous English horticulturists) on seeing this new race of plants, pronounced it to be the most notable achievement for many decades.

Their growth is most luxuriant, it being not unusual

for them to grow eight and nine feet high. The foliage varies from a finely divided leaf to a broad type resembling the common moscheutos. The flowers measure from six to eight inches in diameter, and are obtainable in almost any shade from a pure white with a red eye, to a deep rich crimson.

These new plants will be invaluable for perennial border planting, in shrubbery borders or in beds by themselves.

The original plants from which the stock has been produced have been standing on the grounds for four years, proving conclusively that this new race is perfectly hardy. An exhibition of them is planned for the coming autumn at Jamestown, Va.

Warren Chandler

Forcing Cucumbers

The cultivation of cucumbers under glass has increased to quite an extent during the past decade. It was formerly confined very largely to the East, but of recent years has developed largely in other sections. Even in the older sections noted for market gardening under glass the increase in the number of houses during the last five years is quite marked.

Many gardeners confine themselves to growing cucumbers, but in the large lettuce houses in the vicinity of Boston cucumbers constitute only a spring crop, three crops of lettuce being grown first. Those who have made a specialty of growing cucumbers under glass have as a rule been successful financially, and many of them have been able to increase their greenhouse area to quite an extent. There are many more forced cucumbers used at the present time than formerly, therefore, the increase in their production has not seriously affected the price.

In general cucumber growers have not developed that degree of skill in handling their crops that lettuce growers and various types of florists have. Cucumber growers are more isolated, pay little or no attention to co-operation, and do not have to contend with much competition. Moreover, most of the men who have gone into cucumber growing have had little or no experience in market gardening or floriculture. Florists and other types of greenhouse men meet with more competition; therefore they are better organized, and co-operate to a certain extent. It is of the greatest value to anyone growing outdoor crops to have had experience in a greenhouse, inasmuch as those who have had such experience are much better qualified to carry on intensive agriculture out-of-doors. On the other hand, it is a decided drawback to success for a gardener to have had experience in growing only one kind of produce. This is a failing common to many cucumber growers. Some experience in general greenhouse work would naturally help in growing any special crop.

Every florist who is entitled to the name knows that it is impossible to grow good produce under glass without paying due regard to weather conditions, but cucumber growers as a whole ignore these conditions and attempt to grow their crops without the slightest regard as to whether cloudiness or sunshine prevails. They maintain the same temperatures during a series of cloudy days as during bright, sunshiny ones, a practice which would immediately prove fatal to other crops. By completely ignoring these simple, fundamental rules the plants often become subject to the most peculiar functional disorders, and it is not surprising that saprophytic and parasitic organisms often obtain a foothold. Many of these troubles are wholly unnecessary, and if proper attention were given to the limitations of the plant and its requirements they would be unheard of. The long period of cloudy weather which has prevailed during the past few months has served to test the skill of cucumber growers, and some of the peculiar disorders which have been common would not have been present if proper conditions had been maintained in the house.

TYPES OF GREENHOUSES BEST SUITED TO GREENHOUSE CUCUMBER CULTURE

Most cucumber houses are narrow compared with lettuce houses, and are generally 18 to 25 feet in width and 100 to 200 feet long. Such houses are usually provided with benches containing soil to a depth of about one foot. In a house of this description four or more rows of cucumbers are planted lengthwise of the house,

but it is a question whether the yield of the middle rows, which are more or less shaded, is sufficient to pay for planting them, especially when the outer rows are trained high and shade the inner ones. Cucumbers are also occasionally grown in the regular 2-3 span lettuce house, which is usually about 40 feet wide. In such houses the plants are grown in solid beds and are trained to either vertical or slanting trellises. A house 40 feet wide is the best for general purposes, and the writer considers it better than the narrow style of house for cucumbers.

From a large amount of data which the writer has obtained relative to the cost of various types of greenhouses per linear foot, it would appear that a house 40 feet wide and 300 feet long can be constructed proportionately cheaper than one 18 feet wide and 100 feet long. Moreover, a large house is easier to run, since it has more air space, and is less subject to abrupt changes in temperature, etc.

Since cucumbers require a great deal of light—much more, in fact, than they are able to secure during the winter months for their best development—it is essential that a greenhouse be constructed with the least possible amount of material which obstructs light. The older type of house was built entirely of small glass, and many cucumber houses at the present day are of this nature; consequently they are not as well lighted as they should be. The present tendency in greenhouse construction is toward larger glass and frames built to obstruct less light, and some of the best market-garden houses are now provided with glass 20 x 30 inches. Glass 24 x 24 inches is occasionally used, but with this larger glass it is necessary to have the frames more stiffly purlined. In such houses there is even less breakage than in a house poorly supported and built of the ordinary sized glass. Some commercial growers put the sash-bar 24 inches apart, and use 16 x 24 glass, running it lengthwise of the house, since there are fewer sash-bars employed in running it lengthwise. This affords much better light, which during the short winter months is a great advantage in cucumber growing.

TYPES OF CUCUMBERS GROWN

There are generally two varieties of cucumbers used in forcing; the White Spine, a standard variety; and what is known as the Hybrid, a cross between the English Telegraph and the White Spine. This hybrid type is more like the White Spine than the Telegraph, and is a slightly longer, darker colored and less spiny cucumber than the typical White Spine. Its dark green color makes it suitable for some markets. Other varieties are sometimes used, such as the Giant Pera, and occasionally Russian and Japanese varieties, but these have a limited commercial value.

SOILS AND FERTILIZERS

The best soil for cucumbers is one of a light nature, which may be obtained by mixing one-third horse manure, one-third decomposed loam and one-third sod. This soil may be used repeatedly by the addition of horse manure and it is not necessary to apply anything in the line of commercial fertilizers, although some growers use wood ashes, bone meal and occasionally nitrate of soda. The amateur grower, however, should be cautious in his use of commercial fertilizers in greenhouse work of any sort, since more trouble than benefit usually results from their use; in fact, a large percentage of the troubles to which greenhouse cucumbers are subject may be traced directly to the injudicious use of fertilizers and manures, and serious troubles have been caused by the

application of hen manure and liquid manure, nitrate of soda, etc. Little is known about the best commercial fertilizers for cucumbers, and their use should be restricted as a rule to expert growers. In case they are used, advice should be sought from reliable firms and specialists. Cucumbers are particularly sensitive to certain fertilizer elements, and when these elements are present in a soil to a certain degree, root absorption is prevented and wilting and curling of the leaves and other malformations are likely to result.

G. E. Stone

Amherst, Mass.

(The next article will treat on culture, diseases, etc.)

Some Features of the Sim Plant at Cliftondale

The remark was recently made by a prominent Boston sweet pea grower, that so far as he knew, there was only one party in either Europe or America who made a business of bringing out a race of sweet peas distinctively in the forcing class, and that was Zvolanek of New Jersey. W. C. Ward of Wollaston, Mass., has made a comparative test of a number of the earliest types of the Blanche Ferry variety, the present season, including Zvolanek's Christmas. Wm. Sim of Cliftondale, Mass., grows only Christmas, with one exception, and the possibilities of this race, under forced culture, as brought out by him are well demonstrated at his place.

Seed of the Blanche Ferry variety were planted in one of the violet houses late in October, in soil prepared for the successive crops of violets and sweet peas. The rows of the latter follow the line of posts supporting the roof, a space a foot wide having been left for that purpose when the violets were planted. Violet temperature was maintained until after February first, when the peas began to show flower, and the temperature was allowed to run up. A little later the violet plants next to the pea line on either side were dug up. Under the influence of increased heat and light, buds and flowers multiplied rapidly, the flowers coming very fine in size and color with from two to five blossoms on long stiff stems. The house is 360 feet long. The rows, three in number, run lengthwise. At the present time, March first, the peas are well started in flowering and there is not a weak or thin place to be seen in these far-reaching lines, but the same stocky, thrifty vine-habit and heavy flowering qualities are evenly manifested up and down the entire lengths. Including the production of two superb rows of Mont Blanc, which have received contemporaneous treatment and complete the capacity of the house, a cut of eight thousand blooms in one day has been made, with a reasonable possibility of four or five times that number by Easter. Careful attention is given to tying and supporting the vines. The row alignment is nearly perfect with no barren vine-growth and the whole appearance is that of a house well on its way to a record, in the annals of sweet pea forcing.

In another violet house are various colors of Christmas planted about two weeks later which have received similar treatment. The rows are four feet apart and run across the house. The dwarf, stocky vine-habit and early flowering qualities of the pink and white are manifested in these colors. They throw a single stalk and branch from that, instead of suckering, which is con-

sidered a distinctive feature of the forcing class. The red, light pink, blue and lavender are good in color, but the style of the flower is not of the desired nature. A sweet pea, in order to be right, should open its outer petals in such a way that the back shall have a broad, flat aspect. Now and then there is one among the blues, which does this, but the general tendency is to curl the petals inward. When the desired flower habit shall have been established, the range of color possible to this race of sweet peas evidently will be as wide as is that of the field grown. As the floriferousness of Blanche Ferry and Mont Blanc is approximated in these other varieties, the problem for the grower of the future will be to so forecast the market that time, effort and space will not be wasted in growing colors that will not sell. It is probable that the larger part of the production of this house will be disposed of at comparative advantage and altogether it seems that with successful growers sweet peas are all right for a spring crop. But Mr. Sim, like Mr. Ward, is of the opinion that a straight house of peas for the entire season is a doubtful proposition.

Nearly 50,000 Comet tomato plants are grown and fruited annually at this establishment, with a crop of nearly one hundred tons a past achievement and a future probability. Twenty thousand are fruited under glass, the seed being sown the first of January. From the seed bed they are pricked out into flats and then successively transplanted into 2 1-2-inch, 4-inch pots and the bench, where they are to be grown. Work of removing the violet plants begins immediately after Easter, and setting out the tomato plants follows closely.

There are no elevations for benches or depressions for walks in any of the Sim houses, the beds and walks during the violet season being marked off by narrow strips of boards set edgewise in the ground. These are taken up and the tomato plants placed from fifteen to eighteen inches apart in rows that run across the house with only one walk running lengthwise through the centre. The rows alternate eighteen inches and twenty-four inches apart. No additional fertilizing material is placed under the tomato plants, as a sufficient quantity was incorporated for both crops at the beginning of the season but wells have been driven, a steam pump set up, tanks built and pipes laid for the purpose of leading a supply of liquid manure to all parts of the range, and the tomato plants are fed later on from this source.

Seed for the field crop is sown about the middle of February and the plants are also grown in pots. The last of May these are placed two feet apart, in rows that are 3 feet apart, in order to allow for horse cultivation, but they are trained to stakes and trimmed of laterals the same as the inside ones.

It is said that the products of the Sim plant create a stir in all the markets they enter and this is hardly to be wondered at. Two acres of single violets under glass followed by the same area of tomato and cucumbers, with an intermediate crop of sweet peas, the average daily cut of which would be considered immense for a field grown crop, supplemented by twenty-five thousand well-grown, heavily fruited tomato plants in the open field constitute a supply in each several line, which would be likely to create an impression.

Geo. L. Higgins

HORTICULTURE

VOL. V

MARCH 30, 1907

NO. 13

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 05

ADVERTISING RATES

Per Inch, 30 inches to page . . . \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (12 times) 10 per cent.;

six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass.

under the Act of Congress of March 3, 1879.

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Frightening
the customer

We read in the Meriden (Conn.) Record that the florists of that city report that the Easter flowers will be unusually expensive this year. The florists responsible for this statement in Meriden as well as the florists who circulate similar stories in other cities must be very short-sighted people. We often wonder what they expect to gain by frightening the public away from the Easter flower trade. Other lines of business take just the opposite course in dealing with the public and

never weary of telling them of bargains, mark-downs, and favorable prices generally on the goods they wish to dispose of. The florist trade stands alone in its apparent presumption that scare heads are a help to prosperity.

Better publicity
methods needed

Anyone who has ever had occasion to report for publication the prize awards and other items of general interest in connection with flower shows well knows the difficulties encountered in the task. Rarely do we find a well-equipped intelligent plan of recording and manifolding the judges' reports such as is in operation at exhibitions in other lines and it is not an infrequent occurrence that the only copy of this information, so important in its bearing on the success of the affair and the personal interests of the prize-winners, is locked up or otherwise inaccessible until its custodian can be found. The obvious need is more clerical help and a modern equipment for quick and accurate news dissemination. Prompt judging, prompt recording and prompt announcing will go far toward making a show financially successful. And, we might add, a number of well-informed guides or attendants to direct visitors to objects of curiosity or interest and to answer inquiries would be another effective step in the same direction.

Are you
ready?

With the passing of Easter comes an abrupt change of conditions in the daily activities of many of our readers. Easter crops and prospects no longer concern them, winter has gone, spring is here. Plant houses are empty, violet houses soon will be; even the rose houses have but a few weeks left until overhauling will be in order. April will be a busy month for the retail florist with weddings and receptions, and it is not too soon to consider preparations for Memorial Day business. Whatever your spring rush may embrace—decorating, replanting, propagating, rebuilding, gardening, seed-selling or tree-selling—foresight and "allreadiness" will do much to lighten the labor and insure success. If you require supplies, implements, stock or equipment of any kind our advertising columns await your interested perusal. Do it now. If you have spring material to sell our advertising columns also offer you the best means for accomplishing that purpose. Do it now. In all these things it pays to take time by the forelock and be prepared.

An urgent
duty

There exists no more effective means of increasing the florist, nursery and seed trades than the education of the public in garden work. Anything that awakens a fuller appreciation of floral beauty in the garden is sure to also instil a deeper fondness for floral adornment in the season when gardens have lost their attraction. Too little attention has been given to these self-evident truths by our florists' clubs and kindred organizations. Engrossed in the handling exclusively of greenhouse blooms and often affecting a sort of disdain for the outdoor product and those engaged in its cultivation, many florists have overlooked the direct advantage to themselves and their craft in the cultivation of the public taste and the encouragement of horticulture in its broader phases. A fuller recognition of the benefits to be derived from inducing public interest in garden topics, and a disposition to aid in a practical manner the establishment of nature study and gardening classes for the children of the public schools in every community in the land is the florists' first duty to himself today.

THE MUSINGS AND MAXIMS OF MCGORUM.

The convention of the Rose Society has again terminated and judging from the reports its star is again in the ascendant. The essay of E. G. Hill should be kept for future reference. Coming from a gentleman of so high a standing, "aside from his genial personality," we owe him much. I coincide with the views of our friend Elliott that the Rose Society should be in the hands of commercial men, and its officers should be of that class, or men affiliated with the profession. We will take a step backward if we admit amateurs or those not in commercial work in to the working ranks of the society at the present time. Chicago is to be the next Mecca for the rose men. Well, judging by reports, the western brethren will be able to show us a few wrinkles that we easterners don't know. Here's hoping we may be all spared to see it.

I have just been studying the photograph of the delegates taken on the Treasury steps "just a few steps between them and riches." George Watson looks as if he had taken a fall out of the President. I wonder if the affair took place in the Blue Room. I see George is retaining the hand that shook the hand, etc., "George again"—and just back of George stands Job. Job don't seem flustered; though shorter in stature, he has the bearing of one of his forefathers who was a pedantic ruler of Scotland, and who carried a sword five feet four inches in length. Burns made the owner of that sword memorable by giving us, "Scots wha' hae wi"—Well you know what comes after that, but Job's forefathers' sword lies in a glass case in a certain monument, so the pen being mightier than the sword and better suited for the vest pocket he prefers it. Job says he is "rubbing shoulders with experts" now and wishes to be understood to be in that category. Experts don't usually take their own prescriptions; if they did I wonder where Job would be languishing.

I attended the spring show in Boston Saturday. It was a beautiful show of plants, but the cut flower section was rather meagre. What is the reason that we have not the spirited contests we had some years ago. I am informed that there is something coming on at the fall show in the interests of the commercial men. Society people are offering some handsome special prizes for roses to be competed for at that time. Let the good work go on and I hope the growers will appreciate the efforts of the men who are instrumental in bringing forward this movement.

President Westwood's letter on "Tightening the ties" shows him to be a broad-minded gentleman of a class who sees that antagonisms and divisions mean the ultimate disruption of the whole. Beecher once said, "A man who does not know how to learn from his mistakes turns the best schoolmaster out of his life." I wish to be understood that no party or parties in any club have any right to the moneys of the club any more than any individual member, but when those moneys are wanted by any set of men in a profession for the benefit of that profession, to cause an in-

justice to be stopped, the members ought to rise as one man and help those who are in trouble. Organizations are more to be feared by a certain class of men than men going as individuals. Give president Westwood your strongest support for by his action he stood by the ship when she was in a very rocky quarter. Give us more men like him and we would have a happier and better world. Don't live for self. Give your neighbors a helping hand when in need.

R. T. MCGORUM.

SCHOOL GARDENS.

Editor of HORTICULTURE:

I note with great interest two communications on children's gardens in your issue of March 9th. Good for Mr. Murray. More such generous offers might easily establish a school garden center from which would radiate more substantial support than the movement has ever received.

We have had in Boston during the last six months two school garden conferences, one at Horticultural Hall largely attended by school teachers, school garden workers and those interested in children and in civic improvement, the other at Lorimer Hall under the auspices of the Massachusetts School Superintendents. Both were enthusiastic, well attended meetings and will do a lot to push the good cause along. Why not a conference of the trade to outline a definite policy for helping?

I believe the school garden movement should be thoroughly studied and a definite plan drawn up. The trade should do two things now, get the public interested and give definite help to all. It is a movement which is growing fast but which needs substantial support now as never before. The trade are interested and cannot but see the great advantage in the movement. Let them step in and give balance and strength which will carry it forward with a strength that nothing can break down. The more one studies it the more one believes in it. Now is the time for action. Get together and talk it over.

The report of the Committee on Children's Gardens of the Massachusetts Horticultural Society for 1906 is just out. Anyone interested may secure a copy from Sec. W. P. Rich, Horticultural Hall, Boston.

Very truly yours,

HENRY SAXTON ADAMS.

Wellesley, Mass., March 9, 1907.

WHOLESOME CHESTNUTS.

It is a little early yet to prune hybrid perpetual roses outdoors, but when the work is in order, which it will be in most sections within the next two or three weeks, remember to cut back weak wood more than the good strong shoots; hard pruning within season always insures larger blooms, but not in large numbers. In making a new planting of roses out doors it must be borne in mind that, although plants when growing can hardly get too much water, wet soil naturally is repugnant to them especially in winter and it will be found that when roses are planted in wet ground with no provision for drainage, the roots are mostly dead in spring and the plants of little use.

Roses like a rather stiff soil, but when the best possible results are de-

sired it will be well when starting upon the work of preparation for their cultivation to remove a part of the soil from the place intended for the plants filling the vacancy thus created with the same quantity of good turf grown on a stiff soil mixing therewith a liberal portion of cow manure, never omitting taking the precaution of providing adequate drainage.

Hybrid tea roses in frames should receive all the air possible from now on and their planting in beds should not be deferred after they show unmistakable signs of growth. Any pruning necessary for this class of roses can be given them at leisure before they are planted. Those of the same class out doors all winter may be winter killed down to the surface of their protecting material and a little lower perhaps, and still be of service.

Frau Karl Druschki and Mildred Grant are two superb white roses that no one growing roses should be without. Mrs. John Laing, also a hybrid perpetual although not new, is a pink rose of surpassing beauty in flower and foliage.

The hybrid tea class of roses are fast gaining ground in the march to permanent popularity because they flower steadily till frost checks them for the winter.

No apology is required for making use of cold frames in the early spring under the supposition that frames are antiquated. Might as well apologize for condescending to utilize the heat of the old sun, with the possibility of making as great an impression. Cold frames are indispensable adjuncts to every greenhouse establishment, private or commercial, large or small, but there is a proper time and manner of using them to advantage and it may also be that sometimes it would be better if they remained unoccupied. The danger of such an eventuality is nowadays reduced to a minimum. Most people know perfectly well what to put in cold frames in early spring and in what condition those things should be when placed there.

Geraniums established in their flowering pots may be removed to frames any time, care being taken that they are sufficiently protected from frost. Antirrhinums and other things of like character that have been some time pricked off into flats will do well in frames now. There is much complaint this season concerning the failure of salvia seed to germinate. This is especially pronounced in the case of Bonfire. Plants well advanced now in pots should provide cuttings which will soon root and make nice plants in time for bedding.

Now is the time to go ahead with the work of getting a good stock of coleus ready. Cuttings well rooted, obtainable for half a cent each, will make tip-top stuff by planting time.

Alternantheras will soon claim attention; by dividing and taking cuttings subsequently from a seemingly small stock an enormous quantity may be grown. Keep the plants growing and keep putting in all the cuttings as fast as they reach a fit stage.

Don't allow Begonia Vernon to crowd in flats; pot into three-inch pots as many of these as circumstances will permit of handling; they are preferable in pots, but useful even in flats.

SPRING EXHIBITION AT BOSTON

The Massachusetts Horticultural Society certainly scored a magnificent success last week for the spring exhibition at Horticultural Hall was unanimously acknowledged to be the best spring show ever made by this society. Its superiority was due not only to the high quality of the exhibits and the cultural skill displayed but to

participation of the commercial growers in, these public exhibitions once almost exclusively supported by the private growers. It is very significant when we see a commercial florist capturing the first prize for twelve specimen acacias in not less than three species!

Indian azaleas were shown in great

and in this respect the Boston show suffered but his collection contained several varieties not shown heretofore and was intensely interesting to the rose lover. Cyclamens, always a notable factor in the Boston exhibitions, were fully up to the record. Cinerarias, including stellata, were excellent. Bulbous stock was fine throughout, the narcissus section being especially good and very extensive. The group of hard-wooded plants from Mrs. J. L. Gardner, which occupied the stage in the lecture hall comprised many gems such as acacias, chorizemas, cytisus, rondeletias, eriostemons, etc., and was worthily awarded the special prize offered in this class by the Julius Roehrs Company.

George M. Anderson showed a group of cyclamens, 18 months from seed, which were admired probably as much as anything in the hall and received a silver medal for them. Two plants of Queen Alexandra daisies from George Page, gardener to Mrs. Fred Ayer showed the possibilities with this lovely flower; a cultural certificate was his reward. A cultural certificate was also given to Thos. Roland for a pair of stately specimens of *Cytisus canariensis* which stood like sentinels each side of the loggia steps. A silver medal was awarded to R. & J. Farquhar & Co., for the magnificent group of tulips, hyacinths, lily of the valley and other spring flowering material which is very inadequately represented in the accompanying illustration. The group of acacias from Thos. Roland received unstinted praise from admiring gardeners and well deserved the silver medal awarded. In this and other groups of acacia there were represented *A. armata*, *longifolia*, *pulchella*, *heterophylla* and *cultriformis* and in Dr. Weld's group was a superb specimen of James Comley's unnamed



AMARYLLISES AT SPRING EXHIBITION, BOSTON

By W. C. Ritchie.

the extent and variety of the displays and, most noticeably, to the general layout and the arrangement which was the best thus far in the new halls. Instead of the series of dozens and half dozens of pots and pans of the various competing plants arranged upon long tables, uninteresting to the majority of visitors, the most of the material on this occasion was disposed in great groups and masses, a veritable riot of color, producing an impression that will never be forgotten. It is true that our exhibitors have yet much to learn in the art of plant arrangement for general effect. Cyclamens, lilies and violets do not grow perched up above kentias and dracaenas, and araucarias are decidedly out of place crowded down among daffodils and primroses. These incongruous jumbles are seen at all exhibitions where plant grouping is attempted and they were not absent on this occasion but an intelligent effort to break away from meaningless indiscriminate mixtures was apparent in many instances, and in none with greater success than in the groups by R. & J. Farquhar & Co., and by Robert Cameron of the Harvard Botanic Garden, both of which are illustrated in this issue.

Especially gratifying to the older gardeners and others who have a due appreciation for hard-wooded greenhouse flowering plants was the profusion of acacias, ericas and plants of similar character shown on this occasion. As compared with the exhibitions in recent years it may be characterized as a notable revival of the conditions of "The good old times." Again, it is pleasant to see the growing interest being taken by, and the

er profusion and better quality than on any occasion since the notable display made by Prof. Sargent at the opening of the new hall some years ago. Mr. Walsh's group of rambler roses was much smaller than that of last year, his stock having been depleted by his contributions to the recent rose exhibition in Washington



PRIMULA OBCONICA AND ERICAS AT SPRING EXHIBITION, BOSTON

By Harvard Botanical Garden.

sweet-scented Christmas flowering acacia, which heads them all as a valuable commercial plant.

A prime attraction was the seedling amaryllises from W. C. Ritchie, gardener to Mrs. J. Montgomery Sears. They were the best ever shown here and our photograph does not convey an adequate idea of their beauty. George Stuart was a good second in this class. A seedling Himalayan rhododendron, Mary Weld, the

H. A. Jahn seedling carnations, Mrs. E. S. Crow vase of Farquhar's annual pink lupin (a very pretty flower), Wm. Whitman, gardener Martin Sullivan, for *Cattleya Schroederiae*, R. & J. Farquhar & Co., for *Begonia Gloire de Lorraine* superba, and Julius Roehrs Company for new azalea Julius Roehrs, a variety which when it becomes more abundant will unquestionably take the lead among the commercial Easter blooming azaleas on



CARNATIONS AND ROSES AT SPRING EXHIBITION, BOSTON

sweet perfume of which pervaded the entire hall, was shown in a 6-inch pot by W. C. Rust gardener to Dr. C. G. Weld. The variety is a cross made by Mr. Rust's predecessor, Kenneth Finlayson, five years ago, between R. Princess May Fitzwilliam and R. Veitchianum laevigatum. A first-class certificate was awarded to Mr. Finlayson. The flowers are pure white, of enormous size and crowded on immense trusses. J. E. Rothwell made a remarkable display of about three hundred vases of cut orchids all labelled with elegant precision, winning the Appleton silver gilt medal. There were also some fine orchid plants from Mr. Rothwell, including a lovely specimen of *Dendrobium nobile virginale* bearing three spikes of bloom for which a first-class certificate was awarded. Orchids were also shown in abundance by Lager & Husell and a first-class certificate was given their *Calanthe vestita igneo-oculata gigantea*.

Wm. Sim showed a fine table of winter-flowering sweet peas in many colors for which a silver medal was awarded. Among M. H. Walsh's rambler roses were *Celestia* single pale pink, *Jucunda* light pink, *Hiawatha*, brilliant carmine. *Acadia* double crimson, *Babette* double pink, *Lady Gay* double light pink and *Milky Way* single pure white and very fragrant, a first-class certificate being awarded for the latter. Other special awards were first-class certificates to Peter Fisher for carnation Beacon, Albert Roper for carnation Bay State, Wm. Sim for violet Boston, James Crosbie gardener to Mrs. J. W. Tufts for superior cultivation of *Dendrobium nobile*, Gen. S. M. Weld for *Primula Kewensis*, and Thomas Watt for superior cultivation of azalea; honorable mention to Jos. Breck & Son, for oak jardiniere and display of bulbous flowers, W. W. Rawson & Co., bed of spring bulbs and alpine plants,

account of its vigor, glowing color and size of flower. Among the host of exhibits receiving gratuities of greater or less value in addition to those winning prizes as hereinafter recorded were extensive decorative groups by Ed. MacMulkin and S. Hoffman, schizanthuses and yellow *Cineraria stellata* from Mrs. J. L. Gardner, new and rare greenhouse plants, dracaenas, crotons, orchids, etc., from Julius Roehrs Co., *Narcissus poetaz* Klondyke, Louise and other hardy hybrids between poeticus and polyanthus, from W. W. Rawson & Co., carnation Victoria from J. H. Cushing, herbaceous plants from John R. Clarke & Co., and gardenias from F. Heermans.

Awards in the regular prize classes were as follows:

Plants.

Six Indian azaleas: 1st, Wm. Whitman; 2d, James Stuart; 3d, E. W. Breed. Palms, pair, in pots or tubs: 1st, Mrs. Frederick Ayer; 2d, Wm. Whitman. *Ericas*, six plants: 1st, Mrs. Frederick Ayer. Orchids, three plants: 1st, Wm. Whitman; 2d, J. E. Rothwell; 3d, James Stuart. Specimen acacia: 1st, Mrs. Frederick Ayer; 2d, James Stuart. Twelve acacias: 1st, Thomas Roland; 2d, Mrs. Frederick Ayer. Climbing rose: 1st, M. H. Walsh; 2d, ditto. Six rambler roses: 1st, M. H. Walsh, a Silver Medal. Hardy primroses and polyanthus, twelve plants: 1st, Wm. Whitman; 2d, ditto; 3d, Mrs. A. W. Blake. Cyclamens, ten plants: 1st, Dr. C. G. Weld. Group arranged for effect: 1st, James Stuart. *Cinerarias*, six varieties: 1st, James Stuart; 2d, J. H. Brooks; 3d, Mrs. J. L. Gardner. Specimen *cineraria*: 1st, James Stuart; 2d, Wm. Whitman; 3d, James Stuart. *Cineraria stellata*, six plants: 1st, Wm. Whitman; 2d, ditto; 3d, Mrs. J. L. Gardner. Hyacinths: 1st, Wm. Whitman; 2d, Mrs. J. L. Gardner. Single pans: 1st, Wm. Whitman; 2d, Mrs. J. L. Gardner; 3d, Wm. Whitman; 4th, Mrs. A. W. Blake. Tulips, six pans: 1st, Wm. Whitman; 2d, Mrs. A. W. Blake; 3d, Mrs. J. L. Gardner. Three pans: 1st, Wm. Whitman; 2d, Mrs. A. W. Blake; 3d, ditto. Jonquils, six pots or pans: 1st, Wm. Whitman; 2d, Mrs. J. L. Gardner; 3d, Wm. Whitman. *Narcissuses*, six pots: 1st, Wm. Whitman; 2d, Mrs. J. L. Gardner; 3d, Wm. Whitman. Three pots or pans: 1st, Mrs. J. L. Gardner; 2d, Mrs. J. L. Gardner

Amaryllises, six pots, distinct varieties: 1st, Mrs. J. M. Sears; 2d, James Stuart. Collection of herbaceous spiraeas: 3d prize to Mrs. J. L. Gardner. Group of Easter flowering plants: 1st, Sydney Hoffman. General display of spring bulbous plants: 1st, Wm. Whitman.

Flowers.

Twelve American Beauty Rose: 1st, Waban Rose Conservatories. Twenty-five Bride: 1st, Waban Rose Conservatories. Twenty-five Bridesmaid: 1st, Waban Rose Conservatories. Twenty-five Liberty or Richmond: 1st, W. H. Elliott; 2d, Exeter Rose Conservatories. Twenty-five any other variety: 1st, W. H. Elliott, Killarney; 2d, Exeter Rose Conservatories, Chatenay; 3d, Exeter Rose Conservatories. Twelve Bride: 1st, Joseph H. White. Twenty-five Bridesmaid: 1st, Joseph H. White. Twelve any other variety: 1st, F. Heermans; 2d, Joseph H. White. One hundred Carnations one variety, with foliage: 1st, Albert Roper; 2d, F. R. Plerson Co. Twenty-five crimson: 1st, Wilfrid Wheeler; 2d, S. J. Goddard; 3d, Backer & Co. Dark pink: 1st, E. A. Wood; 2d, Backer & Co. Light pink: 1st, S. J. Goddard; 2d, Backer & Co. Scarlet: 1st, S. J. Goddard; 2d, C. S. Strout; 3d, F. R. Plerson Co. White: 1st, S. J. Goddard; 2d, C. S. Strout; 3d, Mrs. A. W. Blake. Yellow variegated: 1st, Wilfrid Wheeler; 2d, Backer & Co. Day-break colored: 1st, E. S. Grew; 2d, Wm. Whitman; 3d, C. S. Strout. Pansies—Forty-eight blooms: 1st, Mrs. E. M. Gill; 2d, H. A. Jahn; 3d, N. F. Comley. Violets—One hundred double: 1st, Louis Smith; 2d, H. F. Calder; 3d, E. Bingham. One hundred single: 1st, Norris F. Comley; 2d, E. Bingham; 3d, Harry F. Woods. Camellias—Twelve blooms: 1st, Mrs. J. Montgomery Sears; 2d, James Stuart; 3d, Wm. Whitman.

Fruit and Vegetables.

Collection of winter apples: 1st, G. V. Fletcher; 2d, A. E. Hartshorn. Cucumbers: 1st, W. W. Rawson; 2d, Halifax Gardens Co. Dandelions: 1st, A. E. Hartshorn; 2d, W. Huestis & Son. Lettuce: 1st, A. E. Hartshorn; 2d, W. W. Rawson; 3d, Wm. Whitman. Mushrooms: 1st, F. Heermans. Parsley: 1st, A. E. Hartshorn; 2d, W. W. Rawson. Radishes: 1st, W. W. Rawson; 2d, Halifax Gardens Co. Collection of vegetables: 1st, W. W. Rawson.

PHILADELPHIA SPRING SHOW.

The spring show of the Pennsylvania Horticultural Society opened on the 26th inst. continuing for three days. The exhibition was smaller than usual but there were some very meritorious items entered and these created a considerable amount of interest. Among the good things may be mentioned the geraniums and obconicas of William Robertson; the azaleas and amaryllises of Joseph Hurley and the American flag beds of hyacinths and tulips of which latter the exhibit of William Kleinheinz was far and away the best. It was composed of lavender and white hyacinths for a corner piece the balance being formed of red and white tulips all representing the stars and stripes in a very striking manner. Samuel Batcheler was easily first in a competition of obconicas in six-inch pots against strong opposition. There was a fine show of double tulips and double and single daffodils for the Michell and Dreer prizes. A striking item was an exhibit of wallflowers by William Robertson which was universally admired as one of the best grown lots of this plant ever seen here. There were three grand specimens of Whitman fern on show for the Dreer prize—Mr. Hurley's being undoubtedly the best with Mr. Robertson's a close second. The Pink Pearl rhododendron of Joseph Hurley's showing was a winner in every way. Nothing finer has ever been seen here. Thomas Long showed a twelve-foot specimen of *Gleichenia*

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ballata which was only a taste of what this exhibitor could do if he felt like it. Messrs. Hurley and Robertson were strong on amaryllis. Primula Sieboldi, pale lavender, pure white and deep purple beautifully fringed and perfectly grown, were never shown in better shape than in the exhibit of Wm. Robertson. There was an interesting exhibit of old fashioned polyanthus of which the entry of Mr. Robertson seemed to carry the honors. Cineraria stellata was very much in evidence. Magnificent plants three feet high and the same in diameter were on exhibition, covered almost to the pot with the most compact and amazing masses of bloom. In the center of the hall were palms and foliage plants. In the corners large specimens of rhaps. In the center big azaleas, pandanus, araucarias, standard mignonette and dracenas. In the general show callas and Easter lilies were a strong feature. Among the daffodils the half-trumpet pure white Mrs. Langtry was conspicuous while the tulip section rejoiced in an equally aristocratic pure white the Jost Van Vondel. Joseph Hurley gained first for three fine plants of Spiraea Gladstone. Wm. Fowler's lot of the same were a close second. Two new seedling geraniums were shown by Mr. Henderson, one of which is a lovely soft pink and seems superior to anything else in its color thus far. John McLeary put up two round beds of spring bulbs one of grass and crocus with hyacinths in the center the other with daffodils in the center surrounded with hyacinths and edged with yellow, pink, and white tulips. Downstairs in the rotunda the most important items were the exhibits of the seedmen, conspicuous among these being those of Messrs. Michell and Dreer. Jno. E. Haines and William Kleinheinz showed some very fine carnation flowers. Robert Craig Company sent a small exhibit of flowering hawthorn.

G. C. W.

ELBERON HORTICULTURAL SOCIETY.

The regular meeting was held on March 18 with President Robertson in the chair. A. Grieb, superintendent for S. Sacks, gave an address on violets which was interesting and instructive. A. Rickards of New York and W. F. Ross of Tarrytown were present and made a few interesting remarks. The principal exhibits were: Vase of Cattleya Schroederiae, which scored highest, shown by W. D. Robertson; Princess of Wales violet, by A. Grieb; callas, by P. Murray; Narcissus princeps, by J. Kennedy; La France violets, by F. Dettlinger; stocks, Princess Elizabeth, by A. Bauer; grape hyacinths, by B. Wychoff; and specimen azaleas, by H. Wood.

GEORGE MASSON.

NEWS OF THE CLUBS AND SOCIETIES

CHRYSANTHEMUM SOCIETY OF AMERICA.

At the executive meeting of the Chrysanthemum Society of America, held in New York City, March 14, it was unanimously voted to hold the next meeting of the society in New York, thereby accepting the kind invitation extended by the American Institute through Dr. Hexamer. The enthusiasm with which the committee enters upon their duties augurs well for a successful meeting in November. The date is left open for the present, and all possible care will be taken to prevent its conflicting with any dates already arranged, so that a majority will be able to avail themselves of the opportunity afforded to exhibit at and visit what promises to be the best chrysanthemum show ever held in New York City. Many valuable premiums will be offered for commercial and exhibition varieties, particulars of which will be published on completion of arrangements.

The constantly increasing membership is very gratifying, proving an awakened interest in the important work of the national society, but there are still many who, by their skill in producing such wonderful examples of the highest culture, should fall in line and lend their influence to the advancement of public interest in the queen of autumn, and thereby become links in the chain of recognized professionals in the culture of the chrysanthemum.

Do not underestimate the value of your accomplishments; identify yourselves with the best growers and share in the mutual exchange of advanced ideas, and so keep pace with the increasing popularity of the flower we all love.

DAVID FRASER, Secretary.

CONNECTICUT HORTICULTURAL SOCIETY.

The regular meeting of this society was held on Friday evening, March 22, Vice-President Huss in the chair. It was Rose night and splendid exhibits were tabled. Among the leading exhibits were: John Coombs, Hartford, Carl Peterson, superintendent of the Whiting greenhouses, West Hartford, N. Nelson, gardener at the Retreat, and J. F. Huss, superintendent to J. J. Goodwin.

In addition to a large turnout of regular members there was a good public attendance and much interest was evinced in the fine exhibition. An animated discussion took place on rose culture in general and on the merits of grafted versus own-root plants in particular. J. F. Huss, C. Peterson and N. Nelson led the discussion and, as might have been expected, the con-

census of opinion was in favor of grafted stock. Diplomas were awarded to Messrs. Coombs, Peterson and Nelson, and a certificate of merit to J. F. Huss. A committee was appointed to arrange for a fall exhibition.

ALEX. CUMMING.

TRI-CITY FLORISTS' ASSOCIATION.

The Tri-City Florists' Association held their first banquet at Davenport, Ia., on March 11. The attendance was large and the affair was most successful. Theo. Ewoldt acted as toastmaster, and a wide range of topics pertaining to florists' interests was presented, among which were The Organization of a Tri-City Horticultural Society, J. T. Temple; Funeral Work, William Knees; Efficient Florists' Help, Henry Meyer; Store Decoration, Harry Bills; Greenhouse Construction, John Staack; General Plant Trade, Henry Gaethge, Sr.; Cemetery Trade, H. G. Pauli; Carnation Growing, Ludwig Stapp; Influence of Parks on the Florists' Trade, C. O. E. Boehm; Has Our Club Furthered a Feeling of Friendship and Goodfellowship Among Its Members? George Farber; Delivering Florists' Stock, Henry Gaethge, Jr.; Nursery Stock, H. G. Bryant; Private Grounds, Elmer Ekstam and Peter Becker; Decorative Plants, Frank Woelz; Landscape Architecture, Its Effect on the Florists' Trade, A. Arp.

At the April meeting ladies will be invited.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The lecturer at the next meeting of the club on April 16 will be B. K. Howard, his subject being "Landscape Gardening." At the May meeting Duncan Finlayson will address the members on "Planting and Caring for an Italian Garden."

The club will hold its annual banquet in April at Horticultural Hall. Tickets and full details can be obtained from the officers and members of the executive committee.

W. N. CRAIG, Secretary.

LENOX HORTICULTURAL SOCIETY.

The regular meeting of the society was held Saturday, March 16, president Heeremans in the chair. F. Heeremans was awarded a cultural certificate for a vase of Richmond roses. A. McConnachie won the society's checker tournament, also the medal presented by H. A. Bunyard of New York. At the next meeting on April 6, Mr. John Farquhar of Boston will give a lecture, illustrated with stereopticon views on the gardens of Italy.

G. H. INSTONE.

HORTICULTURAL SOCIETY OF BUFFALO.

With two objects in view, one to broaden the culture of garden flowers, the other to hold a great flower show, as an aid to that purpose, announcement is made of the formation of the Horticultural Society of Buffalo. The formation of the society has been in progress for some time and additions to its membership are still being made, though its organization and plans are sufficiently advanced to have fixed upon a date for the holding of the flower show, the issuance of its lists of premiums and the selection of officers.

The honorary president of the society, Dr. Matthew D. Mann, is also the president of the society for beautifying Buffalo, and a man deeply interested in the culture of flowers. Dr. Mann has done much in the interests of beautifying Buffalo and the other members of the society are enthusiastic over the prospects of a great flower show in Buffalo this coming fall, Convention Hall having been obtained for the entire week of November 11th to 17th, inclusive. The honorary secretary of the society is George B. Montgomery, of Montgomery Bros. & Company.

Many prominent citizens are interested. Prof. Cowell of the Botanic Garden is a prominent figure in the movement and is especially solicitous in the encouragement of horticulture among the school children. A children's day will be one of the special features of the exhibition.

SCRANTON FLORISTS' CLUB.

This club held its first flower show on March 15 and the large attendance and general interest shown promise well for the future. Not only were the local florists well represented but there was a large contingent from nearby towns and contributions from growers at a distance.

Certificates of merit were awarded to C. W. Ward for carnations Alma Ward and Beacon; Paul Niehoff for rose Aurora. Special cultural certificate to C. W. Challis for Cineraria stellata and to Fred Hatch for orchids. Honorable mention to J. E. Haines for carnations Imperial, Pink Imperial, John E. Haines and Seedling No. 6; Leo Niessen for roses; Davis Bros., H. Gerbig, J. L. Dillon, for carnations; G. R. Clark for roses; Chas. Ellebrecht, floral basket; Chas. Schlingmann, Primula obconica. Special mention to John Hill for violets in pots; W. C. Clark, general display; J. Rodham & Son, carnations; Scranton Florists' Supply Co. for floral supplies.

The judges were W. MacDonald, W. C. Clark, B. E. Cokely, J. Rodham, G. R. Clark, Edgar McConnell.

CLUB AND SOCIETY NOTES.

The Gardeners' Association of Pasadena, Calif., will hold their second annual flower show on April 4, 5, 6.

At the next meeting of the New Haven Horticultural Society on April 2, an address on the diseases of plant life will be delivered by George P. Clinton, botanist at the experiment station.

George Bartholomew, the newly elected president of the Dayton (O.) Florists' Club, is manager of the Miami Floral Co., which is one of the largest and most modern wholesale concerns in the State.

SALVIA ZURICH

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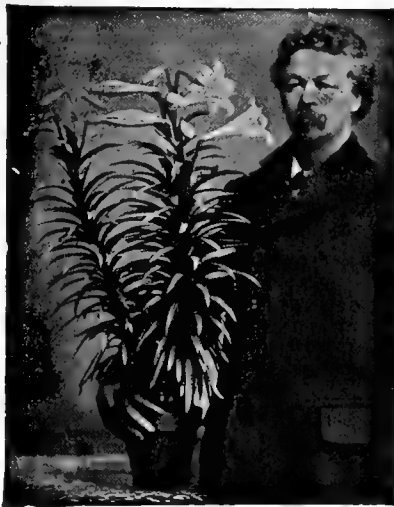
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Jamaica Plain, Mass.

Seed Trade

Reference was made in last week's notes to fears expressed of a shortage in the onion seed crop of 1907 by the California seed growers, and it seemed pretty early in the season to begin to cry short crops. Within the past few days certain more or less authentic information has come to hand which seems to justify to some extent these fears. It seems that owing to heavy and almost continuous rains last fall a large part of the onion bulbs were not planted out, but were left piled up in sacks all winter with the result that they have rotted badly or have sprouted to such an extent as to be practically useless. In addition, much of the land in the Santa Clara valley has been under water a great part of the time, to a depth of from six inches to two feet, causing many of the onions that were set out to rot. No reliable estimate of the percentage of onions thus lost has been given, but with the small quantity of seed that will be carried over, and the short acreage in California, there seems no doubt that the next crop of seed will be pretty well up in price.

Reports are that the Ohio crop of onions has sold at fairly good prices, notwithstanding the large crop, choice reds and yellow globes bringing from seventy-five cents to one dollar per bushel. These exceptional prices show what choice types will bring even when ordinary stock can be bought for half the prices named. Many farmers will hesitate over a difference of fifty cents per lb. in the price of seed, for choice selected types, amounting to possibly two dollars per acre, and lose fifty to one hundred dollars on the crop. This is poor business judgment, but it is quite useless to argue with them, as the first cost is all they are capable of appreciating. Onions are by no means the only crop to which these remarks apply, and with all deference the seed trade is not without fault along these same lines.

Much criticism is heard because types have deteriorated, but when a practical grower at the cost of several years of intelligent persistent labor restores types that have deteriorated, or improves existing ones, how many seedsmen are willing to pay him a reasonable premium for superior quality? A few there are who freely recognize superior merit, and encourage all efforts at improvement, and to these few the seed trade is largely indebted for the continued improvements in the types of our vegetables.

CATALOGUES RECEIVED.

Green's Nursery Co., Rochester, N. Y.—"Bargains in Surplus Stock."

J. A. McDowell, City of Mexico.—Trade list of Cacti, Orchids, Bulbs.

Andorra Nurseries, Chestnut Hill, Phila., Pa.—Spring price list of specimen trees, shrubs, roses, etc.

Josiah Young, Troy Seed House, Troy, N. Y.—1907 spring catalogue of flower and vegetable seeds, tender and hardy plants, implements, etc.

The Grangers' Nurseries, Ellsworth Brown & Co., proprietors, Seabrook, N. H.—Catalogue of fruit and ornamental trees. Colored cover illustrations.

Bay State Nurseries, Windsor H.

Summer Bulbs

Order today, while the stock is large and fine

Single				BEGONIAS				Double			
	Doz.	100	1000		Doz.	100	1000		Doz.	100	1000
Crimson.....	40c.	\$2.75	\$23.50	Crimson.....	65c.	\$5.00	\$40.00				
Orange.....	40c.	2.75	23.50	Orange.....	65c.	5.00	40.00				
Scarlet.....	40c.	2.75	23.50	Scarlet.....	65c.	5.00	40.00				
Pink.....	40c.	2.75	23.50	Pink.....	65c.	5.00	40.00				
White.....	40c.	2.75	23.50	White.....	65c.	5.00	40.00				
Yellow.....	40c.	2.75	23.50	Yellow.....	65c.	5.00	40.00				
Mixed.....	35c.	2.50	22.00	Mixed.....	50c.	4.00	35.00				

CLADIOLUS				HARDY LILIES			
Fine large size blooming bulbs.				(Sound bulbs.)			
	Doz.	100	1000		Doz.	100	1000
Augusta. Pure white...	45c.	\$3.00	\$28.00	Auratum. 8 to 9 in.	75c.	\$5.25	\$47.50
Brenchleyensis. Scarlet	25c.	1.25	11.00	Album. 8 to 9 in.	\$1.00	7.00	65.00
May. White & d crimson	30c.	1.75	15.00	Rubrum. 8 to 9 in.	85c.	5.75	52.50
Pink and Variegated....	25c.	1.25	12.00	Melpomene. Crimson, 8			
Scarlet and Crimson....	20c.	1.00	9.00	to 9 in.	1.00	7.00	65.00
Striped.....	30c.	2.00	19.00	Magnificum. Pure white,			
White and Light.....	25c.	1.75	15.00	8 to 9 in.	1.00	7.00	65.00
Yellow.....	35c.	2.50	24.00	Tigrinum. Large bulbs.	80c.	6.00	52.50

SEND FOR OUR GENERAL CATALOGUE, ALSO FLORISTS WHOLESALE LIST

HENRY F. MICHELL CO., 1018 Market Street, PHILADELPHIA.

Wyman, proprietor, North Abington, Mass.—Price list of trees, shrubs and herbaceous perennials, "for gardeners and owners of estates only."

Reading Nurseries, J. Woodward Manning, proprietor, Reading, Mass.—Fifty-third annual price-list of hardy trees, shrubs, vines and border plants. Concise and precise. A handy handbook for the home garden planter.

Cottage Gardens Company, Queens, N. Y.—"The Cottage Gardens Nursery Book." This is a very handsome catalogue, profusely embellished with illustrations of fine specimens of the ornamental nursery stock which constitutes their specialty. There are chapters on what to plant, how to plant, and where to plant, and the descriptions of varieties are complete yet concise.

Central Seed and Bulb Co., Chicago, Ill.—Illustrated catalogue of summer flowering bulbs and tubers, flower and vegetable seed, etc. Contains a planting calendar, formulas for spraying mixtures and other useful information. Also trade list for 1907 received. In this catalogue it is stated that E. S. Thompson at the South Haven, Mich., gardens has over 2000 seedlings of the new peony-flowered dahlias and another season will see some of them on the market.

STATEMENT OF PLANT IMPORTS.

There were entered at the port of New York from March 12 to March 25, 1907, the following plants, etc.:

From Holland: C. C. Abel & Co., 44 cs. plants; H. F. Darrow, 61 cs. plants, 10 cs. flower roots; Ellwanger & Barry, 19 cs. trees; W. Elliott & Sons, 57 cs. plants; C. A. Haynes & Co., 25 cs. plants, 2 cs. flower roots; McHutchison & Co., 276 cs. plants, 9 bales plants, 6 cs. trees; P. Ouwerkerk, 162 cs. plants, 84 cs. trees; C. B. Richards & Co., 27 cs. plants and roots, 40 cs. plants; August Rolker & Sons, 24 cs. plants; Stumpp & Walter Co., 14 cs. plants; Vaughan's Seed Store, 6 cs. trees; Sundry forwarders, 605 cs. plants, 328 cs. plants, 5 cs. bulbs, 7 cs. flower roots.

From Belgium: Vaughan's Seed Store, 1 cs. bulbs; Sundry forwarders,

4 cs. plants, 1 cs. bulbs, 142 tubs laurel trees.

From France: H. F. Darrow, 64 cs. plants, 19 pkgs. seed; McHutchison & Co., 71 cs. plants, 16 pgs. plants; August Rolker & Sons, 15 cs. plants; Sundry forwarders to order 51 pgs. plants, 18 pgs. trees, 22 pgs. trees.

From Germany: McHutchison & Co., 6 cs. plants; Vaughan's Seed Store, 1 cs. plants; Sundry forwarders, 218 cs. lily of the valley pips, 17 cs. plants.

Via Southampton: McHutchison & Co., 95 cs. trees; August Rolker & Sons, 27 cs. trees, 13 bundles trees; Sundry forwarders, 122 cs. trees, 14 cs. plants, 1 cs. rose trees.

Via Liverpool: Ellwanger & Barry, 1 cs. trees; H. T. Jones, 5 cs. trees; Sundry forwarders, 7 cs. plants, 2 cs. trees.

Via Glasgow: H. F. Darrow, 3 cs. trees.

VALLEY CLUMPS
\$15.00 100

Gladiolus Fine MXD
\$3.00 100

Tuberoses XLCR
\$8.00 1000

W. Elliott & Sons
201 Fulton St.
N. Y.

I Have a Few Pounds of Seeds of
DELPHINIUM
CARDINALE
Which I Offer at \$5.00 per Pound
Herbert E. George
928 Morton Ave., Pasadena, Cal.

NEW STOCKS
FLOWER SEEDS for FLORISTS

Wholesale Catalogue Ready. Send for it today. But first read our advertisement on page 105 in the Horticulture for January 26th, 1907. It is worth reading.

James Vick's Sons,
Seedsmen. Rochester, N. Y.



— PEONIES —

DOUBLE SWEET SCENTED

Large Roots with 3 to 5 eyes. These varieties are especially desirable for Florists.

	Per Doz.	Per 100
Alba Plena, white, very popular.....	\$1.50	\$10.00
Agida, rich, glowing dark red.....	1.50	10.00
Carolina Allain, bluish white.....	1.50	10.00
Fragrans, deep pink with light center.....	1.50	10.00
Humei, large pink with bluish center, fine.....	1.50	10.00
Madame Calot, pure white, tinted rose.....	1.50	10.00
Ne Plus Ultra, brilliant rose, edged white.....	1.50	10.00
Prince Prosper d'Arenberg, flesh pink, extra large flower.....	1.50	10.00
Pulcherrima, rose violet center, rose and salmon.....	1.50	10.00
Rosea Superba, large, bright pink.....	1.50	10.00
Reevesii, soft pink, red blotch on center petals.....	1.50	10.00
Rubra Triumphans, rich glowing crimson.....	1.50	10.00
Queen Victoria, white, red blotch on center petals.....	1.50	10.00
Duke of Wellington, soft white, creamy white center.....	2.75	
Festiva Alba, pure white, very fine.....	1.50	10.00
FESTIVA MAXIMA, white, center petals flaked red, magnificent flower; the most popular of peonies, each 35c.....	3.00	

DOUBLE CHINESE PEONIES

Unnamed Sorts, Exceptional Quality with 2 to 7 eyes.

	Each	Doz.	100
Pink Shades.....	\$0.20	\$1.50	\$8.00
Red Shades.....	.20	1.25	7.00
White Shades.....	.25	1.50	8.00
Mixed, all colors.....	.20	1.00	6.00

PEONY OFFICIALIS Early Flowering

Rubra, crimson, very early and fragrant, 90c per doz; \$5.00 per 100

25 Bulbs Sold at 100 Rate

If you have not received our Florists' Wholesale Catalogue kindly write us.

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217 MARKET ST., PHILADELPHIA, PA.
Herbert W. Johnson, of the late firm
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BRIDGEMAN'S SEED WAREHOUSE

RICKARDS BROS.

Props.

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In Cold Storage For Prompt Shipment

LILY OF **Spiraea** Floribunda
VALLEY **Japonica**

LILIUMS

Auratum Album Rubrum and Roseum

Joseph Breck & Sons Corp.

47-54 NO. MARKET ST., BOSTON, MASS

RAWSON'S HIGH GRADE SEEDS

for the most critical

GARDENER, FARMER
or FLORIST

Catalogues mailed free

W. W. RAWSON & CO.
5 Union St., BOSTON, MASS.



Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

Prices Quoted in these Columns are for Dealers Only. When Writing to Advertisers Please Mention HORTICULTURE.

PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a large supply of exceptionally fine quality.

For the Lawn,

The Greenhouse,

For the Herbaceous Garden,

For the Flower Garden,

For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,
6 and 7 So. Market St., BOSTON.

*Thorburn's
Seeds*

... OUR ...

Wholesale Catalogue

for florists and market gardeners is now ready and will be sent free to all who ask for it.

NEW CROP flower seeds are mostly all on hand now and we are prepared to fill orders promptly. We handle only the highest grade seeds. Compare our prices before ordering elsewhere. Cold Storage Lily of the Valley Pips. Best possible grade, 1000 m case @ \$12.00 per 1000.

J. M. THORBURN & CO.

33 Barclay St., through to 38 Park Place
NEW YORK

W. & D. SPECIALTIES for FORCING

Mignonette, "New York Market," Sweet Peas, "True," Christmas Flowering, (pink and white), Tomato, "The Don," "Surling Castle," Mushroom, Spawn, "English" and "Pure Culture." Send for 1907 Catalogue.

Weeber & Don, Seed Merchants & Growers
114 Chambers St., New York

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY & CO.

32 & 33 So. Market St., BOSTON

C. C. MORSE & CO.

171-173 May St., SAN FRANCISCO, CAL.

The Largest Seed Growers
on the Pacific Coast

On being asked what we do with so many CANNAS we replied, we sell what we CAN and what we CAN'T we CAN!

50,000 CANNAS

TRUE TO NAME

All with two to three good eyes
Packed 250 in a box, 250 at 1000 rate, 25 at 100 rate.

RED CANNAS

	100	1000
Beaute Poitevine. 3½ ft.	2 25	20 00
Chas. Henderson. 4 ft.	2 00	17 50
J. D. Eisele. 5 ft.	2 25	20 00
Explorateur Crampell. 5½ ft.	2 00	17 50

PINK CANNAS

L. Patry. 4½ ft.	2 00	17 50
Martha Washington. 3½ ft.	2 00	17 50
Mlle. Berat. 4½ ft.	2 25	20 00
Paul Marquant. 4½ ft.	1 75	15 00

ORANGE CANNAS

Admiral Avellan. 4½ ft.	1 75	15 00
Secretary Chabanne. 4 ft.	2 00	17 50

GOLD EDGED CANNAS

Mad. Crozy. 3½ ft.	2 75	25 00
Souv. de A. Crozy. 4 ft.	2 75	25 00

YELLOW CANNAS

Buttercup. 3½ ft.	5 50	50 00
Comte de Bouchard. 4½ ft.	2 75	25 00
Florence Vaughan. 5 ft.	2 00	17 50
L. E. Bailey. 4½ ft.	2 00	17 50

WHITE CANNAS

Alsace. 3½ ft.	2 00	17 50
Peachblow. 3 ft.	1 75	15 00

BRONZE CANNAS

Black Beauty. 5 ft.	6 00	50 00
David Harum. 3½ ft.	3 25	30 00
Grand Rouge. 8 ft.	1 75	15 00
Musafolia. 8 ft.	2 75	25 00
Robusta. 6 to 8 ft.	1 75	15 00

ORCHID CANNAS

Allemania. 4 to 5 ft.	2 25	18 00
Austria. 5 ft.	1 75	15 00
Kronus. 5 ft.	2 75	25 00
King Humbert. 4 ft.	12 50	15 00

ELEPHANT EARS

(Caladium Esculentum)

All sound and with eyes.

6 - 8 inches in Circumference	1 50	10 00
8 - 10 " " " "	3 50	30 00
10 - 12 " " " "	5 50	50 00
12 " " and up	10 00	90 00

ARTHUR T. BODDINGTON

342 W. 14th St., New York

In writing advertisers, mention Horticulture

Comet Tomato

Those who force tomatoes should give "Comet" a trial. This variety has been the talk of gardeners around Boston the past season. Those who have seen it growing declare there's nothing to compare with it. Seed, \$5.00 per oz. Trade packet \$1.00.

WILLIAM SIM, Cliftondale, Mass.

CAULIFLOWERS CABBAGE

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

JAPANESE
THE YOKOHAMA NURSERY CO. NEW YORK.
31 BARCLAY STR.
LILIES
PLANTS
BAMBOO STAKES

EASTER IN PHILADELPHIA.

Easter week here has been a garden of Eden for the average citizen. On the highways and by-ways of this chastened and contented community of a million and a half the flowers have bloomed in the spring equally for the just and the unjust, and all things have looked jocund and joyous. The bougainvillea has shed its purple lustre on every one who had the price, and the gay azalea has made itself at home in palaces and poorhouses. The fragrant hyacinth and the stately lily have each had their day and their worshippers. The plummy spirea and the plebian tulip have had their votaries, and the hydrangea has vied with the heather in catering to the aesthetic taste of patrician wealth and pride. Only the favored in purse got the heather. Only ambassadors of high degree had standing in the court of Erica and much diplomacy had to be added to pearls of price. Crimson Rambler took a wall seat with genista. Potted lilacs and deutzias made a brave show and found many admirers. But of all the galaxy of lovely things commend me to the made-up baskets and boxes. The fair one who could resist these was either hopelessly insolvent or worried about her divorce. With the dainty Farleyense, the filmy gracillimum and the Parisian ribbon as accessories they were simply irresistible.

The purveyors of cut blooms had their innings also. The violet, the daffodil, the sweet pea,—all fresh and fragrant,—gladdened many a careworn heart and smoothed the tracks for countless messengers of Cupid. The gorgeous American Beauty led its lovely sisters through the enchanted gardens and rubbed shoulders lovingly with the clove-scented carnation.

To mention the high priests of the charming festival would be a vain thing. The Pennocks, the Battles, the Crawfords, the Kifts, the Craigs, the Habernehs, the Faulkners, the Foxes and scores of others from center to circumference were all equally busy and important according to their kind and degree. And the men behind the scenes? The Harrises, the Westcotts, the Grahams, the Craigs, the Bells, the Beckers, the Colfeshes and the Andersons, and others of that ilk? What of them? Busy counting up the cash! Prosaic details are too puerile and uninteresting for our fervid and enthusiastic pen this week. Spring is here! G. C. W.

The printed proceedings of the fourth and fifth annual meetings of the Chrysanthemum Society of America, held in Philadelphia and Chicago respectively has been received. It includes a very valuable review of the work of the Society in the examination and scaling of novelties presented for the judges' inspection in the various cities, also a list of American and foreign introductions for the year 1906. The secretary's address is David Fraser, Penn and Homewood avenues, Pittsburg, Pa.

Henry A. Siebrecht delivered a lecture on Flowers for Easter and for Spring Gardens, at the American Institute, New York, on March 27. This is the eighth in the series of free lectures on Agriculture and Horticulture.

Wholesale Trade List.

Plants from 2½ in. pots, 50c. per doz. \$3.00 per 100

Asparagus plumosus, Heliotrope, Fuchsias, Salvia Bonfire, Coleus Verschaffeltii and Golden Bedder and fancy varieties, Variegated Periwinkle, Ageratum Blue Perfection, Moon Vine (white, the true variety) Ipomea Heavenly Blue, Acalypha, Clematis paniculata, Parlor Ivy, Lobellias.

Seedlings from flats at \$1.00 per 100

Asparagus Sprengerii, Smilax, Ageratum Blue Perfection, Petunia Howard's Star and Rosy Morn, Marguerite Carnations, Stokesia, Verbenas, Alyssum new dwarf.

Plants from 3 in. pots at \$4.00 per 100

Geraniums best varieties, rose, apple and nutmeg scented, Fuchsias, Heliotrope.

C. EISELE,

11th & Roy Streets,
PHILADELPHIA, PA.

... Established 40 Years ...

ROSE HILL NURSERIES

NEW ROCHELLE, N. Y.

Most Complete Horticultural Establishment in America

SIEBRECHT & SON

New York Office: Siebrecht Building, 425 Fifth Avenue

Moschosma
Riparium

Now booking orders for this valuable new winter-flowering plant for April and May delivery. Send for my lists.

CHARLES H. TOTTY
MADISON, N. J.

ASPARAGUS SEEDS

(TRUE PLUMOSUS NANUS)

Greenhouse grown. \$4.50 per 1000 seeds. Special quotation on lots of 10,000 or more.

S. S. PENNOCK-MEEHAN CO.
THE Wholesale Florists of PHILA.
1608-1618 Ludlow St.

ASPARAGUS

Plumosus, Robustus and Sprengerii

Three inch stock ready for fours. Send ten cents for samples and prices.

ALBERT M. HERR, Lancaster, Pa.

WHITMAN

2 1-4 inch, \$10 per 100

BOSTONS

2 1-4 inch, \$3.00 per 100

H. H. BARROWS & SON Whitman, Mass.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

Sander, St. Albans, England
and 235 Broadway, Room 1
NEW YORK CITY

—ORCHIDS—

Some of the varieties we shall import this spring:

Cattleyas, Trianae, Labiata, Mossiae, Mendellii, Speciosissima, Gigas, Schroderae; Dendrobiums Nobilae, Wardenianum, Phalaenopsis; Vandas Coerulea, Kimballiana; Oncidium Varicosum; Laelia Anceps, Autumnalis, Albida. Write for prices on above.

CARRILLO & BALDWIN, SECAUCUS, N. J.

ORCHIDS Importations, 1907

Save money and get our quotations on Cattleya labiata, Trianae, Percivaliana, Mossiae, Mendellii, Schroderae.

JULIUS ROEHRS CO.

Largest Orchid growers and importers in U. S.
RUTHERFORD, N. J.

Orchids for Spring Delivery

Cattleyas, Laelias, Oncidiums, etc.

Write for price list. Finest quality of Peat and Moss and Orchid Baskets on the market.

Give me a trial order.

Joseph A. Manda

191 Valley Road, West Orange, N. J.

ORCHIDS

Arrived in exceptionally fine condition the following ORCHIDS: LAELIA PURPURATA, CATTLEYA HARRISONIAE, C. INTERMEDIA, C. TRIANAE, C. LEOPOLDII and many more.

Write for Prices

LAGER & HURRELL, SUMMIT, N. J.

ORCHIDS Direct from the Collectors For Spring and Summer Delivery

We are giving quotations upon our entire list of South American, Philippine and East Indian Orchids. Choicest varieties of Cattleyas, Odontoglossums, Ptilinias, Cyrtopodum, Phalaenopsis, Dendrobiums and Vandas. Among them the very rare Vanda Sanderiana for delivery June or July.

A. HELD, 11-19 William St., New York

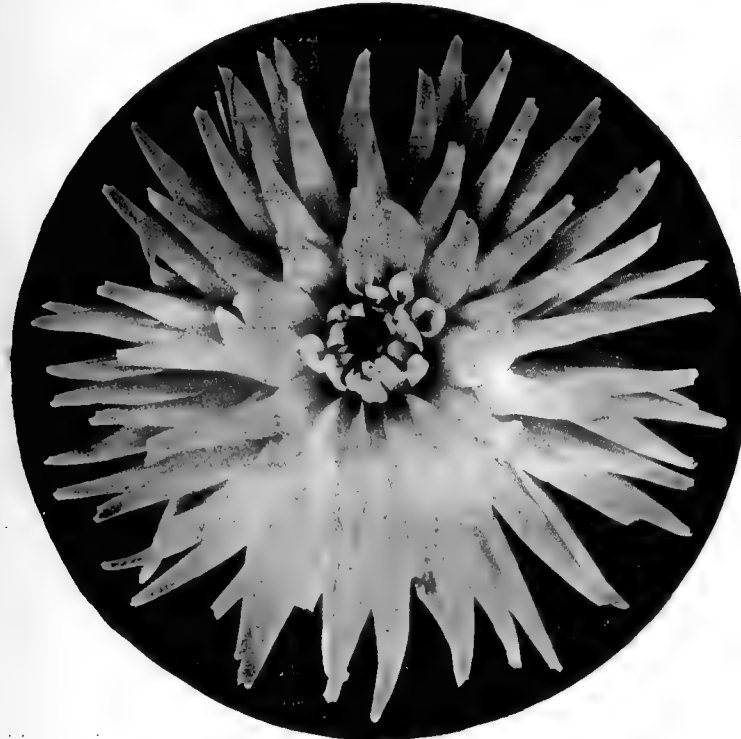
TO BUYERS

Patronize our Advertisers, they will treat you right

DREER'S SELECT DAHLIAS

VARIETIES SPECIALLY SUITED FOR CUT FLOWERS

Strong dormant field roots, grown at our own Nurseries where every precaution has been taken in the handling, and our customers may depend on receiving stock absolutely true to name



SINGLE CENTURY DAHLIAS — Good Divided Roots — Field-grown Stock

Crimson Century. Rich velvety crimson \$2.00 Per doz. \$15.00 Per 100
Scarlet Century. Brilliant rich scarlet 3 50 25 00

White Century. Large pure white 4 00 Per doz. 30 00 Per 100
Twentieth Century. The standard single 1 50 10 00

	Per doz.	Per 100
A. D. Livoni, (Quilled). Pink.....	\$1 00	\$8 00
Aegir, (Cactus). Warm cardinal red.....	1 00	8 00
Admiral Dewey (Decorative). Rich French Purple.....	1 00	8 00
Aunt Chloe, (Cactus). Rich black maroon.....	1 00	8 00
Baron Schroeder, (Decorative). Purple with bluish shadings.....	1 00	8 00
Catherine Duer, (Decorative). The favorite Newport red.....	1 00	8 00
Clifford W. Bruton, (Decorative). Bright yellow.....	1 00	8 00
Countess of Lonsdale, (Cactus). Pleasing salmon.....	1 50	10 00
Eva, (Cactus). Medium sized, pure white.....	2 50	15 00
Earl of Pembroke, (Cactus). Rich plum color.....	1 00	8 00
Fire-rain, (Decorative). New brilliant red.....	3 00	20 00
Floradora, (Cactus). Blood red.....	2 50	15 00
Florence N. Stredwick, (Cactus). A grand white.....	2 50	15 00
Flora, (Cactus). The ideal white.....	4 00	30 00
Frute, (Cactus). Soft rose pink, passing to cream center.....	2 50	15 00
Gigantea, (Giant). An immense creamy white.....	2 50	15 00
Gorelinde, (Cactus). Finest yellow.....	2 50	15 00
Grand Duke Alexis, (Quilled). Standard ivory white.....	1 50	10 00
Hohenzollern, (Cactus). Bronzy orange.....	1 00	8 00
Keyne's White, (Cactus). Free flowering white.....	1 00	8 00
Kriemhilde, (Cactus). Soft pink.....	1 50	10 00
Lyndhurst, (Decorative). Brilliant red.....	1 00	8 00
Lenau, (Cactus). Coral red suffused apricot.....	4 00	30 00
Mary D. Hallock, (Quilled). A useful yellow, very free.....	1 00	8 00
Mme. Alfred Moreau, (Show). A fine large pink.....	1 50	10 00
Miss May Loomis, (Show). White suffused with soft rose.....	1 50	10 00
Mrs. Winters, (Decorative). Fine white.....	1 00	8 00
Mrs. Roosevelt, (Giant). Pink.....	2 50	15 00
Nymphaea, (Decorative). Light Pink.....	1 00	8 00
Sylvia, (Decorative). Soft pink.....	1 00	8 00
Standard Bearer, (Cactus). Rich fiery scarlet.....	1 00	8 00
Strahlen Krone, (Cactus). Intense cardinal red.....	1 00	8 00
Thuringia, (Cactus). Very large, fiery red.....	4 00	30 00
Uncle Tom, (Cactus). Deep maroon.....	2 50	15 00
Victor Von Scheffel, (Cactus). Beautiful soft pink.....	2 50	15 00
Volker, (Cactus). A grand yellow.....	1 50	10 00
Winsome, (Cactus). A fine white.....	1 50	10 00
Wm. Agnew, (Decorative). Brilliant red.....	1 00	8 00
White Swan, (Show). A good white of medium size.....	1 50	10 00
Waltheri, (Cactus). Sulphur shading to white center.....	4 00	30 00
Zephyr, (Cactus). Crimson carmine.....	2 50	15 00
Zulu, (Decorative). Deep maroon shaded black.....	1 00	8 00

For full descriptions of the above, as well as for a complete list of all the good varieties of Dahlias, new as well as standard sorts, see our current **QUARTERLY WHOLESALE LIST** just issued, which also contains offers of all seasonable Plants, Bulbs and seeds

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

FIRST CLASS STOCK

Salvias, Dreer's superb single fringed Petunia, Ageratum, Lobelia, Coleus, strong, 2 inch, \$1.75 per 100; \$16.00 per 1000. Geraniums, strong 3 inch branched, \$40.00 per 1000; Double Grant, \$35.00; M. Verbenas, \$16.00 per 1000. **Cash.**

WM. S. HERZOG, Morris Plains, N. J.

GLOXINIAS

Mixed Select Quality Tubers \$3.50 per 100

JOSEPH TAILBY & SON, WELLESLEY, MASS.

DAHLIAS WE make them pay. So can YOU
 The Best for Summer Cutting

Kriemhilde, Catherine Duer
 \$1.50 per doz., or \$10.00 per 100

Storm King \$1.00 per doz., \$8.00 100
 Whole Roots, Field Grown

W. C. WARD, Adams St., QUINCY, MASS.

GERANIUMS

Our selection \$18.00 per 1000, composed of the following varieties all to name: S A Nutt, Poitevine, La Favorite, Perkins, Brett, Viaud, Castellane, Doyle and several others out of 2 1-4 in. pot, with or without soil.

	2 1-4 in pot	Rooted Cuttings
Fuchsias in variety,	\$3.00 per 100	\$1.00 per 100
Heliotrope,	2.50	1.00
Sweet Alyssum,	2.00	1.00
Lobelia,	2.00	1.00
Ageratum,	1.50	.50
Rose Geranium,	2.00 fine plants	
Coleus in variety,		.60
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DAHLIAS. Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

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In our **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition
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and 9 Chapman Place,

See our Greens Advertisement on page 439.

L. D. Telephone, Main 2818.

OBITUARY.

Mrs. Henry A. Dreer.

Mrs. Mary Leavenworth Dreer, widow of the late Henry A. Dreer, and formerly a resident of Philadelphia for many years, died on March 25 in Pasadena, Cal. Funeral services will be held in that city, and the body will be sent to Philadelphia for interment in Woodland Cemetery. Mrs. Dreer was born in Reading, Pa., on September 27, 1827, and after her marriage in 1847 came to Philadelphia to live. Notwithstanding the arduous duties connected with a large family, she found time for church affairs and charities. During the civil war she was a constant visitor to the Satterlee Hospital, in West Philadelphia, and opened her house to receive convalescent soldiers. She was a prominent member of the Sanitary Commission, having charge of the horticultural department at their great fair in 1864. She was active in the building of the Northminster Presbyterian Church and Horticultural Hall, and was a manager of the first Young Women's Christian Association, the Presbyterian Home for Aged Women and various other charitable organizations of Philadelphia. In 1888 she visited California, returning there two years later to live in Pasadena. Mrs. Dreer is survived by four daughters and one son, Wm. F. Dreer of the Henry A. Dreer Corporation, Philadelphia and Riverton, N. J.

B. T. Graves.

It is with much regret that we announce the death of B. T. Graves, of Montreal, Canada, at the age of 41. Bertie Graves, as everyone called him, was considered one of the best plantmen and carnation growers in Canada. Some six years ago he succeeded to his father's business, and has been very successful. He leaves a wife and three children. The funeral was largely attended by the local trade and the Masonic order of which he was a member.

Edw. Graves.

Just at this writing comes the news of the death of Ed. Graves, father of the above. No particulars are at hand, but as he was over eighty and in poor health it is not unexpected. Mr. Graves originally came from Peel, Isle of Man, and his place of business was called Mona Nurseries. A son Harry died last November, so that only Mrs. B. Graves is left to carry on the business.

"FIELD DAY" AT WAVERLEY, MASS.

GROUP OF G. AND F. CLUB VISITORS AT W. W. EDGAR'S, WAVERLEY, MASS.

The field days of the Gardeners' and Florists' Club of Boston are always enjoyable in the extreme and among them none more so than the annual pilgrimage to the greenhouses of Wm. W. Edgar Company, at Waverley, Mass., a few days before Easter Sunday. The "fields" on this occasion are vast expanses of lilies, azaleas and acacias all ready for transportation to the city stores and it is certainly an inspiring sight which the generous host spreads before the eyes of his visitors. Then, after feasting the soul he feasts the body, too, and experiences as much delight in the giving as they do in the receiving. Knowing what there was in store for them it is not

surprising that some fifty of the craft appeared in response to Mr. Edgar's invitation last Saturday. They found a rare treat awaiting them for it is an open secret that there is the healthiest batch of lilies in this vicinity, 12,000 pots in one house alone. After a tour through the plant house a group of the visitors was photographed under the big oak tree by Mr. Lumsden and then adjournment was had to the carriage house where an appetizing lunch was served by the ladies and congratulatory speeches were made by a number of the guests under the leadership of president Westwood. The occasion was a most delightful one in every particular.

MOVEMENTS OF GARDENERS.

Robert Mackie, for four years foreman at Allen Winden Gardens, Lenox, Mass., has been appointed superintendent to Charles L. Lawrence, Bayshore, Long Island.

Tom McHugh, Montreal's leading chrysanthemum grower, intends to leave his place at the Forest and Stream Club, and take a position as gardener to M. Davis, the millionaire tobacco manufacturer.

James Stuart, for six years in charge of the estate of the late George F. Fabyan, goes on April 8 to take charge of Mrs. F. A. Constable's estate at Mamaroneck, N. Y. Mr. Stuart is acknowledged to be one of the best plant growers in the country. William Angus, who has served under Mr. Stuart for the past three years, succeeds him as gardener for the Fabyan estate.

CHILDREN'S GARDENS.

We have received from J. B. Heiss a letter of cordial approval of the plan of President John H. Patterson of the N. C. R. Co. to encourage the study of landscape gardening work by the children of Oakwood, Ohio. Four prizes of \$25.00 each are to be competed for and the subjects will include decoration of the home grounds generally and the use of shrubbery as a fence. Throughout the summer, photographs will be made of the lawns and grounds entered for competition and at the time of the awarding of prizes in the fall each child will be given a large photograph of his or her own garden.

Hutchinson, Kan., Mar. 18, 1907.

Please discontinue my ads. for now. Will have some more stock to offer and shall be glad to send my ad. to HORTICULTURE.
JOHN STAMM.

News Notes

George Mahoney of Saco, Me., is in Florida on a short trip.

E. W. Pearson will open a retail store in Newburyport, Mass., on State street.

C. W. Mally succeeds A. F. Burgess as inspector of nurseries and orchards in Ohio.

The Wieland greenhouses at Newton, Pa., have been purchased by Smith & Van Aart, formerly located in Indianapolis.

The Board of Control, Norfolk, Va., have asked for an appropriation that shall cover the erection of a model greenhouse in Lafayette Park.

Randolph & McClements of Pittsburgh, Pa., have purchased the C. T. Siebert estate, which includes 22 greenhouses and six and a half acres of land. The price paid was \$50,000.

J. D. & T. W. Patterson have bought the greenhouses of J. K. Shiffer, Tipton, Ia., and will conduct business under the name of the Tipton Floral Co.

Nurserymen have appeared before the Connecticut agricultural committee in opposition to a bill requiring fumigation of all nursery stock imported into the state.

Pierce Bros., Waltham, Mass., who have been missing carnation blooms recently, caught a young Italian, a former employee, in the act of walking off with two packages of the flowers, and placed him under arrest.

The United States General Appraisers at New York have affirmed the decision of the collector that leaves preserved in their natural state and used for ornamental or decorative purposes are dutiable at 50 per cent. ad valorem.

The greenhouses of Mrs. S. M. Brown and of G. A. Fletcher, Westboro, Mass., were blown down by a high wind which prevailed on March 20. The Brown house was stocked with carnations and the loss is reported to be about \$700.

Supt. Sullivan may continue as he announces, the policy of the late Supt. Doogue, of giving Boston continuous municipal flower shows, but he may easily improve on their scheme of color and arrangement. May we be protected from recurrence of the freak decoration which the Public Garden and Copley Square have suffered.—Boston Evening Record.

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Cor. Michigan Ave. and 31st St., CHICAGO

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LOUISVILLE, KY.
Cut Flowers of BEST QUALITY in season
delivered promptly to any address.
Write, Telegraph or Telephone.
Cumberland and Home Phones 223 and 984.

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Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

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and any town in Missouri or Kansas.

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Choice Valley
Fancy Bride and Bridesmaid

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Store open from 7 A. M. to 8 P. M.

Pink and White SWEET PEAS

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GARNATIONS

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Beauties, Carnations, Violets

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO March 26	ST. LOUIS	PHILA. March 25	BOSTON March 28
ROSES				
Am. Beauty, Fan. & Sp.	50.00 to .....	..... to	25.00 to 30.00	25.00 to 40.00
Extra.....	35.00 to 40.00	..... to .....	..... to 30.00	20.00 to 25.00
No. 1.....	15.00 to 25.00	..... to	15.00 to	12.00 to 15.00
Lower grades.....	8.00 to 10.00	..... to	2.00 to 8.00	4.00 to 8.00
Bride, Maid, Golden Gate, F. & S.	10.00 to 12.00	..... to	10.00 to 12.00	6.00 to 8.00
Extra.....	..... to 8.00	..... to	8.00 to 10.00	5.00 to 6.00
No. 1 & lw. gr. ....	..... to 6.00	..... to	2.00 to 6.00	1.00 to 3.00
Liberty, Richmond, Fan. & Sp.	12.00 to 15.00	..... to	15.00 to 20.00	10.00 to 15.00
Lower grades.....	6.00 to 10.00	..... to	3.00 to 10.00	6.00 to 8.00
Chatenay, Morgan, Fan. & Sp. ....	..... to 10.00	..... to	10.00 to 12.00	6.00 to 8.00
Lower grades.....	6.00 to 8.00	..... to	2.00 to 8.00	3.00 to 4.00
Killarney, Wellesley, Fan. & Sp. ....	..... to 12.00	..... to	10.00 to 12.00	8.00 to 12.00
Lower grades.....	6.00 to 8.00	..... to	2.00 to 8.00	3.00 to 5.00
CARNATIONS				
Fancy and Novelties.....	5.00 to 6.00	..... to	3.00 to 5.00	2.00 to 3.00
Ordinary.....	3.00 to 4.00	..... to	1.50 to 3.00	1.00 to 1.50
MISCELLANEOUS				
Violets, Double.....	.75 to 1.00	..... to .....	.25 to .75	.25 to .50
Single.....	.50 to .75	..... to .....	.25 to .40	.25 to .50
Cattleyas.....	50.00 to 75.00	..... to	75.00 to	35.00 to 50.00
Paper Wb. Nar., Rom. Hy., Freesia	3.00 to 4.00	..... to	2.00 to 3.00	1.50 to 2.00
Tulips, Daffodils.....	3.00 to 4.00	..... to	1.00 to 2.00	1.00 to 2.00
Lilies.....	15.00 to 18.00	..... to	10.00 to 15.00	8.00 to 12.00
Lily of the Valley.....	3.00 to 4.00	..... to	2.00 to 4.00	2.00 to 4.00
Gardenias.....	50.00 to 75.00	..... to	10.00 to 20.00	..... to 25.00
Mignonette.....	4.00 to 8.00	..... to	2.00 to 3.00	1.00 to 2.00
Lilacs (100 bunches).....	..... to .....	..... to	25.00 to	50.00 to 75.00
Adiantum.....	1.00 to .....	..... to	1.00 to	1.00 to 1.50
Smilax.....	15.00 to 25.00	..... to	15.00 to 20.00	12.00 to 16.00
Asparagus Plumosus, strings.....	35.00 to 50.00 to	50.00 to to 50.00
" & Spreng. (100 bchs.)	35.00 to 50.00 to	50.00 to	35.00 to 50.00

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E. A. BEAVEN, Evergreen, Ala.

CUT FLOWER MARKET REPORTS

BOSTON Although it is yet only the middle of the week, Easter has started in earnest for the wholesale people. The shipments to various points in contiguous territory have been enormous indicating with a degree of reliability the sanguine feeling everywhere as to the Easter flower prospects. Lilies are being sought with a zeal that portends trouble and disappointment for those who took no steps to secure their stock by early order. Carnations have been really scarce all this week—bringing prices much higher than at a corresponding period in late years. This does not necessarily prove scarcity, however, as the opinion seems quite general that growers are hoarding the blooms. If this is so, they are making a costly mistake as good carnations have been selling readily for some time past at figures which Easter will not easily overtop. Violets are available in great quantities, with favorable weather for street wear, however, and if moderate prices shall be established at the outset this enormous crop of the fragrant blossoms need cause no solicitude. Every store is crowded with plants and, judging from the prevalent quality, the plant growers of the Hub have covered themselves with glory and filled their coffers with well-earned cash.

Plans for Easter trade now engage the attention of everybody. Entertainments to follow the Lenten season are being arranged but social affairs just now are in the background. Again much improvement was shown in the flower line the past week considering the amount handled, and the wholesaler feels that a good week's business has been done. Stock in most lines was plentiful and moved considerably better than heretofore. The only things that seemed to be scarce were smilax and plumosa bunches. Roses are still coming in plentifully with demand good, especially Friday and Saturday. The same may be said of carnations, white in particular. Beauties, the article which has been for some time scarce, came in in abundance, with no buyers to clean up and prices tumbled; many were sold 50 per cent. less than quotations. Lily of the valley, lilies, mignonette, myosotis and sweet peas of good quality were to be had, also violets, the latter being on the quiet side up to Saturday when a little life was seen. The prospect for a good Easter trade looks bright, should this excellent warm weather continue.

Many things have contributed to make the past week a good one for all the trade. Never were there so many Easter openings amongst business houses in all lines, and without exception they used flowers, and great quantities of them. There are still a

host of fakirs selling carnations at any price they can get, but it does not seem to perceptibly hurt the regular florists. At this writing it certainly looks as if there would be plenty of stock for the Easter trade, with the exception of lilies, which are sure to be somewhat shorter in supply than for several seasons. One factor that will keep prices at a somewhat lower level than usual is the enormous amount of bulb stock in sight, which at some price will find a market. As I have told you for several weeks past there is a good supply of plants with all the growers, and for these most moderate prices will be asked. Spring officially opened here the hottest for twenty-eight years, the temperature reaching 81 degrees, and for three days we have had practically the same weather; you can therefore imagine how stock of all kinds is coming forward.

Trade the past week has been satisfactory in every instance. Flowers of all sorts and every color are coming into the market in great quantities, but there does not seem to be any glut of anything. Bulbous stock as usual at this time of the year is very plentiful. The majority of growers report an unprecedented shortage of lilies. There seems to be an excellent demand for flowering plants of all kinds. Roses are more abundant; some American Beauty of exceptional quality are seen. Single violets, sweet peas, lilac and lily of the valley are in sufficient supply to meet all demands. The warm weather is causing some little trouble for growers who are trying to back their stock. The Easter outlook for profitable and plentiful business is bright.

NEW YORK The flower trade "hides its diminished head" just at present, and Easter plant business is in full control of the situation. Sales are made, of course, in the wholesale flower marts but with that "back seat" feeling which checks any disposition to over confidence and the Greek finds a welcome and a bargain at every turn. Easter values have not yet established themselves, even in prospect, and there is little to base calculations on except that it seems the general conviction that the supply of lilies is not equal to the expected demand and that prices will be stronger than for a number of years past. The outlook for other flowers is for a normal Easter supply of unusual high quality, with the customary over-production of Dutch bulbous stock, and an unprecedented cut of fine violets.

PHILADELPHIA The warm weather and slack demand were responsible for the poor market last

week. Roses were very plentiful; even Beauties were in heavier supply than the market would absorb. Carnations moved fairly well, but prices were low. Violets plentiful and draggy; lily of the valley about normal. Nothing very brisk in any line and supplies more than enough, although it cannot be denied that the aggregate volume was about equal to that of pre-Easter week last year. The only item that looks to be on the short side for Easter week is good Easter lilies. The fakirs laid in heavily at the end of last week but even they found it uphill work and many of them got a black eye. The advance plant trade is brisk and growers are closely sold up.

Notwithstanding the fact that the week before Easter has always been more or less quiet, the report in general seems to be that all of the dealers have had a very good business. Stock of all kinds is on the market in large quantities and prices are down, to some extent. Carnations and bulb stock have mainly suffered. The price on roses has remained steady, and from present prospects will so remain during Easter week. Easter price lists issued by some of the larger dealers show but a very small advance. Easter lilies seem to be somewhat of a puzzle. Growers who have large numbers do not want to part with them to the retailers. Whether or not they over estimate their own demand remains to be seen. Easter plants, particularly azaleas are especially fine. We will have the usual supply of hydrangeas, hybrid roses, Baby Ramblers and spiraeas.

WASHINGTON Holy week being more rigidly observed than the preceding weeks of the Lenten season, has by reason of this fact caused a general stagnation in the flower market and many fine plants and cut flowers are going to waste. On March 22-23 the thermometer suddenly jumped from normal to 95 degrees which brought in much stock that was being held for Easter. Bulbous stock and azaleas of good quality are over abundant everywhere and move very slowly. Large shipments are looked for at Easter at which time the bulk of both home grown and shipped flowers are expected to be disposed of and make room for those which follow.

Montreal reports trade in general as good, although in the French district the effects of the Lenten season are felt. Shamrocks were good and plentiful for St. Patrick's week. The winter seems to have broken at last. For weeks together the thermometer has registered 10 to 20 degrees below zero, and many plants have been frozen. The change to warmer weather is welcome.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending March 23 1907	First Half of Week beginning Mar. 25 1907		Last Half of Week ending March 23 1907	First Half of Week beginning Mar. 25 1907
ROSES			Carnations, Ordinary	1.00 to 1.50	1.00 to 1.50
Am. Beauty, fan and sp.	25.00 to 35.00	25.00 to 35.00	Violets, double .....	.20 to .50	.20 to .50
" extra	20.00 to 25.00	20.00 to 25.00	" single .....	.20 to .35	.20 to .35
" No. 1	10.00 to 15.00	10.00 to 15.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
" Lower grades	1.00 to 6.00	1.00 to 6.00	Pap. Wh. Nar., Rom. Hy., Freesia	1.00 to 2.00	1.00 to 2.00
Bride, 'Maid, Golden Gate, fan & sp	6.00 to 10.00	6.00 to 10.00	Tulips, Daffodils .....	.50 to 2.00	.50 to 2.00
" " " Extra	4.00 to 5.00	4.00 to 5.00	Lilies	10.00 to 12.00	10.00 to 12.00
" " " No. 1 & lw. gr.	1.00 to 3.00	1.00 to 3.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Liberty, Richmond, fancy & special	15.00 to 25.00	15.00 to 25.00	Gardenias	10.00 to 25.00	10.00 to 25.00
" " lower grades ..	3.00 to 10.00	3.00 to 10.00	Pligonette	1.00 to 8.00	1.00 to 8.00
Chatenay, Morgan, fancy and spec.	6.00 to 8.00	6.00 to 8.00	Liars (too bunches) .....	..... to .....	..... to
" " lower grades ..	1.00 to 3.00	1.00 to 3.00	Adiantum .....	.50 to 1.00	.50 to 1.00
Killarney, Wellesley, fan and spec.	8.00 to 12.00	8.00 to 12.00	Smilax	12.00 to 20.00	12.00 to 20.00
" " lower grades ..	2.00 to 6.00	2.00 to 6.00	Asparagus Plumosus, strings...	20.00 to 35.00	20.00 to 35.00
Carnations, Fancy and Novelties..	2.00 to 4.00	2.00 to 4.00	" " " & Spren. (too bchs)	15.00 to 25.00	15.00 to 25.00

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\$7.50 Case of 10,000 Let us have your standing order for Fern. BOXWOOD 20c lb., 50 lbs. \$8.50

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can be furnished at any time and
in any quantity by
CHAS. W. EBERMAN
53 West 30th St. - NEW YORK
Wholesale Dealer

WILD SMILAX \$3.50 per case.
The only place where you can get it.
Long Needle Pines, \$1.00 per doz. Palm Crowns,
\$2.50 per dozen. Extra nice long-stemmed Palm
Leaves, \$2.50 per 100. Magnolia, \$2.50 per case,
16 cubic feet. Sheet Moss, \$2.00 per sack. Grey
Moss, \$2.00 per sack. Galax, \$1.00 per 1000.
Speed a Specialty. Write for Catalogue.
Coldwell the Woodsman Decorating Co., Inc., Evergreen, Ala.

BUSINESS CHANGES.

W. C. Russell has leased the florist
establishment of H. J. Smith at Mill-
brook, N. Y.

Charles Weiss has purchased the
business of Charles Fraser, Richmond
Hill, New York.

H. F. Halle, the west side florist,
Chicago, has secured the store on the
corner of Clarendon avenue and Sheri-
dan drive, and will open for business
about May 1.

The E. F. Winterson Co., Chicago,
have taken a long-term lease of the
stores 45, 47, 49 Wabash avenue, and
have added to their already large
business the sale of seeds, bulbs and
plants. The florists' supply depart-
ment will be given a place in the new
quarters, thus relieving the congestion
in the wholesale cut flower section.
No change is made in the financial or
managerial affairs of the company.

Best Flowers

in the Boston Market

N. F. MCCARTHY & CO.

84 HAWLEY STREET
BOSTON, MASS.

SEND FOR PRICES

Headquarters in Western New York
FOR

ROSES, CARNATIONS
And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.
383-87 ELLICOTT ST.
BUFFALO, N. Y.
Give us a trial. We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Case of 10,000, \$7.50. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.
\$2.00 per 1000.



Best Southern Smilax, \$3.50 and \$7 per case.
Headquarters for all FLORISTS' SUPPLIES. Wire Designs,
Cut Wire, Letters, Immortelles, Cypas Leaves, Wheat
Sheaves, Ribbons, Corrugated Boxes, etc.
LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 15 Province St.,
9 Chapman Pl., Boston, Mass. L. D. Telephone, Main, 2617-2618.



WHOLESALE FLOWER MARKETS.—PER 100. TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	March 26		March 25		March 25		March 25	
ROSES								
Am. Beauty, Fan, and Sp.....	50.00	to 75.00	50.00	to 75.00	50.00	to 60.00	35.00	to 40.00
“ Extra.....	30.00	to 40.00	40.00	to 50.00	20.00	to 50.00	25.00	to 30.00
“ No. 1.....	20.00	to 25.00	35.00	to 40.00	10.00	to 20.00	15.00	to 20.00
“ Lower grades.....	8.00	to 10.00	10.00	to 20.00	5.00	to 10.00	5.00	to 10.00
Bride, 'Maid, Golden Gate, F. & S.	12.00	to 15.00	12.00	to 15.00	12.00	to 15.00	15.00	to 18.00
“ “ “ Extra.....	8.00	to 10.00	10.00	to 12.00	10.00	to 12.00	8.00	to 12.00
“ “ “ No. 1 & lw. gr.	4.00	to 6.00	6.00	to 8.00	6.00	to 10.00	4.00	to 6.00
Liberty, Richmond, Fan, & Sp.....	12.00	to 15.00	18.00	to 15.00	8.00	to 20.00	15.00	to 25.00
“ “ “ Lower grades.....	6.00	to 8.00	8.00	to 12.00	6.00	to 8.00	8.00	to 10.00
Chatenay, Morgan, Fan, & Sp.....	12.00	to 15.00	12.00	to 15.00	10.00	to 15.00	10.00	to 15.00
“ “ “ Lower grades.....	6.00	to 8.00	6.00	to 10.00	8.00	to 10.00	4.00	to 5.00
Killarney, Wellesley, Fan, & Sp.....	12.00	to 15.00	12.00	to 15.00	15.00	to 20.00	10.00	to 15.00
“ “ “ Lower grades.....	8.00	to 10.00	8.00	to 10.00	10.00	to 15.00	5.00	to 8.00
CARNATIONS								
Fancy and Novelties.....	4.00	to 5.00	4.00	to 5.00	5.00	to 6.00	6.00	to 8.00
Ordinary.....	2.00	to 3.00	3.00	to 4.00	2.50	to 4.00	3.00	to 5.00
MISCELLANEOUS								
Violets, Double.....	.....	.50	.....	.75	.....	1.25	.....	.75
“ Single.....	.....	.50	.....	.50	.....	1.00	.....	.60
Cattleyas.....	.....	50.00	.....	.....	.....	.....	.....	.....
Paper Wh. Nar., Rom. Hy., Freesia	.....	3.00	.....	3.00	.....	4.00	.....	3.00
Tulips, Daffodils.....	3.00	to 4.00	.....	4.00	.....	4.00	.....	3.00
Lilies.....	12.00	to 15.00	.....	20.00	.....	15.00	.....	18.00
Lily of the Valley.....	.....	4.00	.....	4.50	.....	4.00	.....	5.00
Gardenias.....	.....	.....	.....	.....	.....	.....	.....	.....
Mignonette.....	2.00	to 3.00	.....	8.00	.....	6.00	.....	6.00
Lilacs (100 bunches).....	.....	.....	.....	.....	.....	.....	100.00	to 150.00
Adiantum.....	.....	1.00	.....	1.50	.....	1.50	.....	1.50
Smilax.....	12.00	to 15.00	.....	20.00	.....	20.00	.....	25.00
Asparagus Plumosus, strings.....	40.00	to 50.00	.....	50.00	.....	50.00	.....	50.00
“ “ & Spren. (100 bchs.).....	.....	25.00	.....	25.00	.....	50.00	.....	40.00
Peas.....	.....	.....	.....	.....	.....	1.00	.....	.....

WINSOR CARNATION BLOOMS

Grown by the F. R. Pierson Company

SOLD EXCLUSIVELY BY

J.T.B.

NEW YORK CUT FLOWER CO.

55-57 WEST 26 STREET, NEW YORK

J. A. MILLANG, Manager

GEO. A. SUTHERLAND CO.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

In ordering goods please add "I saw
it in HORTICULTURE."

The KERVAN CO.

20 WEST
27th ST., N. Y.

WHOLESALE DEALERS

Fresh cut Palmetto & Cypas Palm Leaves, Galax, Leu-
cothee, Ferns and Mosses. All Decorating Evergreen

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification, without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 28 State St., Boston.
For page see List of Advertisers.

ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

AMPELOPSIS.

5,000 Ampelopsis Veltchii, pot grown, Dormant, long Tops, \$4.00 per 100, and clean seed \$1.50 per lb. Cash. Benj. Connell, Florist, West Grove, Pa.

ARAUCARIAS

Godfrey Aschmann,
1012 Ontario St., Philadelphia.
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Peter Henderson & Co.
35-37 Cortlandt St., New York.
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A. Leuthy & Co., Roslindale, Mass.
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ARTIFICIAL CARNATION CALYX

Maxfield & Dimond, Warren, R. I.
P. O. Box 304-D.
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ASPARAGUS

Albert M. Herr, Lancaster, Pa.
Asparagus Robustus.
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Plumosus, 3-in., \$5.00 100; \$40.00 1000. Christ. Winterich, Cyclamen Specialist, Defiance, Ohio.

Asparagus plumosus nanus and Sprengerl, 2 1-2-in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

Asparagus Crawshawii, a new, beautiful asparagus. Seedlings, \$3.00 per 100; \$25.00 1000; transplanted seedlings, \$5.00 100; \$40.00 1000. Jas. Crawshaw, 403 Plainfield St., Providence, R. I.

ASPARAGUS SEED

S. S. Pennock-Meehan Co., Philadelphia.
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C. Elsele,
11th and Roy Sts., Philadelphia, Pa.
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L. Van Steenkiste,
1 Dey St., Jersey City, N. J.
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ASTERS.

Novae-Angliae Asters, strong, \$3.00 per 100; \$25.00 per 1000. Ellsworth Brown & Co., Seabrook, N. H.

Aster Miss Kate Lock, \$1.00 tr. pkt. It's the best aster grown. J. H. Lock, 41 Manchester Ave., Toronto, Ont.

AZALEAS

A. Schulthels, College Point, N. Y.

John Scheepers & Co., 2-6 Old Slip, N. Y.
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A. Leuthy & Co., Roslindale, Mass.
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Godfrey Aschmann, Philadelphia.

John McKenzie, No. Cambridge, Mass.

BAUR CARNATION CLIP AND PLIERS

Baur Floral Co., 18 W. 10th St., Erie, Pa.
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BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

John Scheepers & Co.
4 and 6 Old Slip, New York.
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BEDDING PLANTS

J. E. Felthousen, Schenectady, N. Y.
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C. Elsele, 11th and Roy Sts., Phila.
Spring Bedding Plants.
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BELGIAN PLANTS

L. Van Steenkiste, 1 Dey St., Jersey City, N. J.
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BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.
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J. M. Thornburn & Co., 33 Barclay St., New York.
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A. T. Boddington, 342 W. 14th St., N. Y.
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Rickards Bros., 37 East 19th St., New York.
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H. F. Michell Co., Philadelphia.
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Johnson Seed Co., 217 Market St., Phila.
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John Scheepers & Co., 4-6 Old Slip, N. Y.
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Wm. Hagemann & Co., 55 Dey St., N. Y.
Exporter and Importer of Bulbs.

Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

Bulbs. Cannas, Dahlias, Gladioli, Oxalis, Madeira and Cinnamon vines, Iris, Peonies. Finest stock. C. Betscher, Canal Dover, Ohio.

Caladium esculentum bulbs, 5x7, \$1.00; 7x9, \$2.00; 9x11, \$4.00; 11x15, \$6.00 per 100. Tuberoses, 4x6, \$1.00 per 100. Cash. C. B. Johnson, Wallace, N. C.

Amaryllis formosissima, 11-13 cm., \$2.00 per 100; \$18.00 per 1000. Bessera elegans, 7-9 cm., \$1.00 per 100; \$9.00 per 1000. Pancratium spider lily, 12-15 cm., \$3.00 per 100; \$20.00 per 1000. Tigridias mixed, 7-9 cm., \$2.00 per 100; \$12.00 per 1000. Zephyranthes, white, 7-9 cm., \$1.00 per 100; \$9.00 per 1000. Price includes carriage paid. J. A. McDowell, Ap. 167, City of Mexico.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

CACTI

Old Man cactus, 4 to 5 inches high, \$3.00 per doz.; \$22.00 per 100. Carriage paid. J. A. McDowell, Ap. 167, City of Mexico.

CANNAS

A. A. T. Boddington, 342 W. 14th St., N. Y.
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The Conard & Jones Co., West Grove, Pa.
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H. F. Michell Co., Philadelphia.
For page see List of Advertisers.

Cannas, Very fine list. Send list of needs. C. Betscher, Canal Dover, Ohio.

Cannas, Pennsylvania, \$2.00; Niagara, Buttercup, \$5.00 per 100. P. A. Baker, Media, Pa.

50,000 Cannas, fine, \$10 to \$15 per 1000. Best sorts. Write Benj. Connell, West Grove, Pa.

Cannas, sound roots, 2 to 3 eyes, true to name: Allemania, Austria, Burbank, Italia, Robusta, Metallica, \$1.25 per 100; \$10.00 per 1000. Martha Washington, Florence Vaughan, Wm. Bofinger, Chas. Henderson, Sec. Chabanne, \$1.50 per 100. America, Black Prins, Mrs. Kathie Gray, Pennsylvania, Coronet, \$2.00 per 100. Pierson's Premier, Souv. d. A. Crosby, Queen Charlotte, Egandale, \$2.50 per 100; \$22.50 per 1000. Black Beauty, Gladiator, Pres. Meyers, new, like King Humbert, \$4.00 per 100. All kinds mixed, \$1.00 per 100; \$7.50 per 1000. Dahlias, leading kinds named, \$3.50 per 100. Shellroad Greenhouses, Grange, Baltimore, Md.

Cannas: Austria, Burbank, Allemania, \$1.50 per 100; \$12.00 per 1000. O. B. Stevens, Shenandoah, Iowa.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.
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S. S. Skidelsky, 824 N. 24th St., Phila.
Rose Pink Enchantress.
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Chicago Carnation Co., Joliet, Ill.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Carnations, Winsor, White Enchantress, Helen M. Gould.
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A. J. Guttman, 43 W. 28th St., New York.
John E. Haines, Bethlehem, Pa.
Carnation Imperial and Pink Imperial.
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F. Dörner & Sons Co., Lafayette, Ind.
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Guttman & Weber, 43 W. 28th St., N. Y.
Carnation Victory.
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N. Y. Cut Flower Co., 55-57 W. 26th St., New York. J. A. Millang, Mgr.
Carnation Windsor Blooms.
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Harloward Greenhouses, Greenport, N. Y.
For page see List of Advertisers.

Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by Glass.

Send for list of rooted cuttings of new and leading commercial varieties of carnations and chrysanthemums. Wm. Swayne, Kennett Square, Pa.

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CHRYSA nth EMUMS

Eggeling Floral Co., 1653 S. Grand Ave.,
St. Louis, Mo.
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Charles H. Totty, Madison, N. J.
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Harlowarden Greenhouses, Greenport,
New York.
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Chicago Carnation Co., Joliet, Ill.

Chrysanthemum stock plants. About 1,000
Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100.
W. F. Kasting, 383 Ellicott St., Buffalo,
N. Y.

CONIFERS

John Waterer & Sons, Ltd., American
Nursery, Bagshot, Eng.
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Evergreens and Conifers. Ask for cata-
logue. Bobbink & Atkins, Rutherford, N. J.

CUT FLOWER BOXES.

Folding cut flower boxes, the best made.
Write for list. Holton & Hunkel Co., Mil-
waukee, Wis.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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CYCLAMEN.

Giant Hybrids transp'l, ready for 2-in. and
3-in., \$3.50 100; \$30.00 1000. Plants grown
of seed taken from the cream of my well
known strain. Christ. Winterich, Cycl-
amen Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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J. K. Alexander, E. Bridgewater, Mass.
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Harlowarden Greenhouses, Greenport,
New York.
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Henry A. Dreer, 714 Chestnut St., Phila.
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Dahlias, fine, strong bulbs. Also cannas
and gladioli. Write for price list. O. B.
Stevens, Sherardoa, Iowa.

W. C. Ward, Adams St., Quincy, Mass.
For page see List of Advertisers.

THE DAHLIA MANUAL.

An up-to-date work on dahlias and dahlia
culture, covering the whole field. Illus-
trated. Price, 35c. W. W. WILMORE,
Box 382, Denver, Colo.

I am again ready to handle your busi-
ness. Only the cream of varieties handled.
Standards and novelties, including Mrs.
Winters, Mme. Dael, Navajo, Lonsdale,
Dainty, Kriemhilde, etc. Catalogue of
dahlias, hollyhocks, peonies and hardy
plants now ready. W. W. WILMORE,
Box 382, Denver Colo.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaena indivisa, 5 in., \$2.00 per doz.
W. C. Rockwell, Bradford, Pa.

Peter Henderson & Co.,
35-37 Cortlandt St., New York.
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Dracaena terminalis from bench, fine.
\$25.00 100. Carl Hagenburger, West Men-
tor, Ohio.

E C H E V E R I A S

Echeverias, 15 to 20 cm. in cir., \$3.00 per
100; \$22.00 per 1000. Carriage paid. J. A.
McDowell, Ap. 167, City of Mexico.

FERN S

A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitmani.
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Siebrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.
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FERTILIZERS

A sample 100 lb. bag of BLACHFORD'S
CELEBRATED FERTILIZER, PLANT
GROWER AND LAND RENOVATOR only
\$2.75. This best grade Fertilizer is com-
posed solely of pure Rose Growers' Bone
Meal, Nitrate of Soda, Peruvian Guano,
Sulphate of Ammonia, Sulphate of Potash
and Gypsum in the correct proportions and
in the most soluble condition. For benches
and potting plants, for roses, carnations,
lilies, mums, etc., many florists say it has
never been surpassed. Particulars for flor-
ist and truck gardeners sent FREE on ap-
plication.

BLACHFORD'S CALF MEAL FACTORY,
Waukegan, Ill.
Established at Leicester, England in 1800.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2
Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St.,
Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St.,
Boston, Mass.
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FLORISTS' SUPPLIES

N. F. McCarthy & Co., 84 Hawley St.,
Boston, Mass.
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H. M. Robinson & Co., 15 Province St., and
9 Chapman Pl., Boston, Mass.
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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.
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J. Stern & Co., 125 N. 10th St., Phila.
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H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia.
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FLORISTS' WAGONS

Edward Higgins, 1 W. 28th St., N. Y.
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FLOWERS BY TELEGRAPH

Alex. McConnell, New York.
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Fred C. Weber, 4326-28 Olive St.,
St. Louis, Mo.
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J. Breitmeyer's Sons, Miami & Gratiot
Aves., Detroit, Mich.
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Thos. Young, Jr., 41 W. 28th St., N. Y.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St.,
Washington, D. C.
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tinued.**

Samuel Murray, 1017 Broadway,
Kansas City, Mo.

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Young & Nugent, 42 W. 28th St., N. Y.
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W. H. Donohoe, 2 W. 29th St., New York.
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Theodore Miller, 4832 Delmar Rd.,
St. Louis, Mo.

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P. J. Hauswirth (Temporary address) 13
Congress St., Chicago.

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William J. Smyth, Michigan Ave and 31st
St., Chicago.

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Wm. H. Rock Flower Co., Kansas City, Mo.
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Theodore Miller, 4832 Delmar Bvd.,
St. Louis, Mo.

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Park Floral Co., Denver, Colo.

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Thos. F. Galvin, 124 Tremont St., Boston.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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FLOWER POTS

W. H. Ernest, 28th and M Sts.,
Washington, D. C.

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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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Say! Send to Feustel, for prices on Red
flower pots. Geo. E. Feustel, Fairport, Ia.

Syracuse Red Pots.

Syracuse Pottery Co., Syracuse, N. Y.
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GALAX

H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston.

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Michigan Cut Flower Co., 38 & 40 Broad-
way, Detroit, Mich.

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Caldwell the Woodsman Decorating Co.,
Evergreen, Ala.

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Galax. Ask for price on case lots. Scrant-
on Florists' Supply Co., Scranton, Pa.

GERANIUMS

R. Vincent, Jr., & Son, White Marsh, Md.
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J. E. Felthousen, Schenectady, N. Y.
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Geraniums. 10 varieties 2-4 in., \$2.50
per 100. Mme. Sallerol rooted cuttings,
\$1.00; 2-in., \$2.00 per 100. Wm. Doel, Pas-
coag, R. I.

Wm. S. Herzog.

Morris Platns, N. J.

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C. Eisele.

11th and Roy Sts., Philadelphia, Pa.

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GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin,
New York.

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B. Hammond Tracy, Cedar Acres, Wen-
ham, Mass.

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Gladioli. C. Betscher, Canal Dover, O.

Gladioli, named varieties. Write for list.
E. E. Stewart, Rives Junction, Mich.

Gladiolus Augusta, 1st size, \$12.00; 2nd
size, \$8.00 1000. Cash. Rowehl & Granz,
Hicksville, N. Y.

Augusta White, small sizes. \$2.00 to
\$3.50 per 1000. John Fay Kennell, Chili,
N. Y.

GLADIOLI. Groff's Hybrids, Gold Medal
and Silver Trophy Strain, Crawford Strain.
Farquhar Hybrid seedlings. JOHN H.
UMPLEBY, Lake View, N. Y.

In writing to Advertisers kindly mention Horticulture

GLASS

Boston Plate & Window Glass Co., Boston.
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Peerless Glass Repair Clamp; you need them—100 for \$1.00. A. Klokner, Wauwatosa, Wis.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St.,
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S. Jacobs & Sons, 1365-79 Flushing Ave.,
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Metropolitan Material Co., 1398-1408 Metro-
politan Ave., Brooklyn, N. Y.

Weathered Co., Box 789, New York.
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Mineralized Rubber Co., 18 Cliff St., N. Y.
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GREENHOUSE BRACKETS

Buxton & Allard, Nashua, N. H.
Economy Greenhouse Bracket.
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GROUND COCOANUT FIBRE

20th Century Plant Food Co., 27 & 29
Ocean St., Beverly, Mass.

HAMMOND'S COPPER SOLUTION

Benj. Hammond, Fishkill-on-Hudson, N. Y.
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HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St.,
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The Kervan Co.,
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Michigan Cut Flower Co., 38 & 40 Broad-
way, Detroit, Mich.
Fancy Ferns.
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Fadefless Sheet Moss.
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HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Funkia variegata clumps, \$6.00 per 100.
H. Pladeck, Elmhurst, N. Y.

Yucca Filamentosa, No. 1, 4c.; Iris Sibirica,
3c. Ellsworth Brown & Co., Sea-
brook, N. H.

Our Catalogue of Hardy Plants are classi-
fied according to the height they grow.
Mailed free on request. John R. Clarke &
Co., Bellevue Greenhouses, 1700 Centre St.,
West Roxbury, Mass.

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Kroeschell Bros., 35 Erie St., Chicago.
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Johnston Heating Co., 1133 Br'dway, N. Y.

HELIOTROPES.

Heliotropes (dark), good stock, strong and
well rooted, R. C., 60c. 100; \$5.00 per 1000.
Cash. J. P. Cannata, Mt. Freedom, N. J.

HOLLYHOCKS

Hollyhocks. Large field-grown plants,
\$3.00 per 100. Double in separate colors
of red, white, pink, yellow and maroon;
also the Allegheny strain. Send for cata-
logue of hollyhocks, dahlias and hardy
plants. W. W. WILMORE, Box 382, Den-
ver, Colo.

HONEYSUCKLES.

Golden Honeysuckles, 7c. Ellsworth
Brown & Co., Seabrook, N. H.

HORICUM

Hammond's P. & S. S. Works, Fishkill-on-
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Lord & Burnham Co., 1133 Broadway, N. Y.
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HOT WATER CIRCULATOR

Holly-Castle Co., 170 Summer St., Boston.

HYDRANGEAS.

Hydrangea paniculata grandiflora, 3 ft.,
3c. Ellsworth Brown & Co., Seabrook,
N. H.

INSECTICIDES.

W. H. Kuld, Norwood, Mass.
Century Insecticide.

KENTIAS

Godfrey Aschmann, 1012 Ontario St., Phila.
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Kramer Bros. Foundry Co., Dayton,
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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis,
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J. Breitmeyer's Sons, Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd.,
St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13
Congress St., Chicago.
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William J. Smyth, Michigan Ave. and 31st
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LILY OF THE VALLEY

Wm. Elliott & Sons, 201 Fulton St., N. Y.
Lily of the Valley Clumps.

John Scheepers & Co., 4 and 6 Old Slip,
New York.
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LILY BULBS

Lilium superbum, extra large bulbs, 25c.
each; \$1.50 per 10; \$8.00 per 100. L. E.
Williams, Nottingham, N. H.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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NIKOTEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.
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John Scheepers & Co.,
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Cottage Gardens Co., Queens, N. Y.
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Conn.
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The Wm. H. Moon Co., Morrisville, Pa.
American Arborvitae.
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The New England Nurseries Co., Inc., Bed-
ford, Mass.
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Cut leaf Stagbhorn sumach, large stock,
6c. to 15c.; Kudzu Vines, 15c. Edw. Teas,
Joplin, Mo.

5,000 Japan Barbbery seedlings, strong,
\$10.00 per 1000. Euonymus radicans, 1 ft.
transplanted, \$4.00 per 100. Spirea Anthony
Waterer, 2 ft., \$8.00 per 100. Golden Syr-
linga, 20 in., \$8.50 per 100. B-B Nursery,
West Newton, Mass.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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- Jos. A. Manda, 191 Valley Road, W.
Orange, N. J.
Orchids, Orchid Baskets, Peat.
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- Laella anceps, \$4.00 per doz.; \$25.00 per
100. Carriage paid. J. A. McDowell, Ap.
167, City of Mexico.

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- John Scheepers & Co.
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PANSIES

- Pansy plants; strong transplanted, \$10.00
per 1000. F. A. Baller, Bloomington, Ill.

PATENTS

- Siggers & Siggers, Washington, D. C.
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PEONIES

- Peonies, fine assortment, \$10.00 per 100.
F. A. Baller, Bloomington, Ill.

- Peonies, 1200 sorts. Greatest list any-
where. C. Betscher, Canal Dover, Ohio.

- Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfield, West Point,
Neb.

PETUNIAS

- The Yates Floral Co., Canajoharie, N. Y.
Scranton Florists' Supply Co., Scranton,
Penn.

- Double Petunia the Queen.
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- C. Eisele,
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Howard's Star and Rosy Morn.
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- Wm. S. Herzog,
Morris Plains, N. J.
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POT HANGERS

- Pot hangers, Kramer's \$1 doz. by exp.
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PLANT BED CLOTH

- Mineralized Rubber Co., 18 Cliff St., N. Y.
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PRIVET

- California privet, all sizes. J. T. Lov-
ett, Little Silver, N. J.

PRUNING SHEARS

- Rhodes Mfg. Co., Grand Rapids, Mich.
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RHODODENDRONS

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- M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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- A. N. Pierson, Cromwell, Conn.
Grafted Roses, Own-Root Beauties.
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- Chicago Carnation Co., Joliet, Ill.

- Montrose Greenhouses, Montrose, Mass.
Grafted Bride and Bridesmaid Roses.
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- Eastern Nurseries, Jamaica Plain, Mass.
Rose Frau Karl Druschki.
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- Dingee & Conard Co., West Grove, Pa.
Hardy Roses; Killarney on Own Roots.

- Low-budded roses, No. 1, \$95.00; No.
1-2, \$65.00 1000. H. T. Jones, Elizabeth,
N. J.

- American Beauties, 2 1-2 in., \$8.00 per
100; \$75.00 per 1000. Chas. H. Totty, Madl-
son, N. J.

- Roses, two-year-old, field grown, Kaiserin
Augusta Victoria, \$12.00 per 100. Clean,
well-rooted stock. Josiah Yeung, 375 River
St., Troy, N. Y.

- Own root roses, 2 years. C. Ramblers.
\$7.00; Dorothy Perkins, P. W. and Y. Ram-
blers, \$5.00; H. P. roses and Baby Ram-
blers, \$8.00 per 100. Gilbert Costich, Roch-
ester, N. Y.

- Baby Rambler roses, fine dormant stock,
one year, \$12 per 100, 2 1-4 in. pot plants,
extra well rooted, \$4 per 100, \$30 per M.
Orders booked for delivery now or any
time up to late spring. Samples free.
Brown Brothers Company, Rochester, N. Y.

RUBBERS

- Rubbers, strong plants, 4-in., 20c.; 5-in.,
extra strong, 25c. Cash. Fuhlbruegge Bros.,
Winona, Minn.

SALVIAS

- Perennial Gardens Co., Toledo, O.
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Salvia Zurich.

- C. Eisele,
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- Joseph Breck & Sons
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- W. Atlee Burpee & Co., Philadelphia.
"New Creations" in Bush Limas.
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- James Vick's Sons, Rochester, N. Y.
Aster Seed.

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Cauliflower and Cabbage Seed.
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- Rickards Bros., 37 E. 19th St., New York.
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- Johnson Seed Co., 217 Market St., Phila.
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- H. E. George, 929 Morton Ave., Pasadena,
California.
Delphinium Cardinale Seed.
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- ASTER SEEDS, home grown. Bargain
list ready. H. W. Koerner, Sta. B, Mil-
waukee, Wis.

- I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.

- Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and
Tree Seeds.

SHEEP MANURE

- R. & J. Farquhar & Co., 6 and 7 So. Mar-
ket St., Boston.
Pulverized Sheep Manure.
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SHEET MOSS

- E. A. Beaven, Evergreen, Ala.
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SHRUBS.

- Japanese Wistarias, 8c.; Berberis Thun-
bergii, 12 to 18 in., 3 1-2c.; Hibiscus, C.
Eye and Pink, 3c.; Norway Spruce, 1 1-2
to 2 1-2 ft., 3c. Ellsworth Brown & Co.,
Seabrook, N. H.

SMILAX

- Smilax seedlings, fall-sown, \$3.00 per
1000. F. A. Baller, Bloomington, Ill.

- Smilax, 3 in., \$1.50 per 100. P. A. Baker,
Media, Pa.

SPHAGNUM MOSS

- Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

- Fresh, clean, 5 bbl. bale, \$1.25; 2 bales,
\$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash.
H. R. Akers, Chatsworth, N. J.

SPIREA

- Spiraea, extra fine clumps in leading va-
riety. F. W. O. Schmitz, Prince Bay, N. Y.

- Spiraea, Van Houttei, 2 to 3 ft., 6c.; 1 1/2
to 2 1/2 in., 4c. Ellsworth Brown & Co.,
Seabrook, N. H.

STEAM TRAP

- E. Hippard, Youngstown, O.
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STOCKS

- Stocks. Snowflake or Dwarf Bouquet,
Benary's strain, 90 per cent. double, white,
blue, red, each separate, for Easter bloom,
2-inch, \$2.00 per 100; \$15.00 per 1000; seeds
cheap. Cash. Shellroad Greenhouses,
Grange, Baltimore, Md.

THERMOSTATS

- Fire and Frost Alarm. Heat regulators.
Brown Alarm Co., Denver, Colo.

TOMATO SEEDS

- Wm. Sim, Cliftondale, Mass.
Comet Tomato.
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VEGETABLE PLANTS

- 500 to 1000 2 1-2 in. Pot Plants, Tomato.
"The Comet." Strong and ready for shift.
\$3.50 per 100. Cohanzle Carnation Green-
houses, New London, Conn.

- Small seed-bed to large transplanted
vegetable plants ready for field. Best sorts
cabbage, cauliflower, lettuce, etc. Mod-
erate prices. Let us send you price lists.
Frank Shearer & Son, Binghamton, N. Y.

In writing to Advertisers kindly mention Horticulture

VENTILATING APPARATUS

Lord & Burnham Co., 1133 Broadway, N. Y.
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J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

The Chicago Lifter.

VINCAS

10,000 vincas 2 1/2 in., fine, \$2.50 per 100;
\$20.00 per 1000. R. Cuttings same, \$1.00
per 100; \$7.00 per 1000. Cash, please.
Benj. Connell, West Grove, Pa.

VIOLETS

H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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Princess of Wales Violets. Rooted cut-
tings, 75c. 100; 2-in. pot plants, \$2.50
Wm. Doel, Pascoag, R. I.

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E. A. Beaven, Evergreen, Ala.
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WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

William E. Heilscher's Wire Works, 38 40
Broadway, Detroit, Mich.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
Cincinnati, O.

WIRE SUPPORTS

The Helm Carnation Support. Write for
price. Helm Carnation Support Co., Con-
nersville, Ind.

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Michigan Cut Flower Exchange, 38 & 40
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Are You Ready?

Next Week's Issue
will deal with Garden
Material.



We have room for
anything in advertise-
ments from a "cent-a-
word" line in the
Buyer's Directory up
to a page or double-
page announcement.
And it will catch the
attention of every
dealer and professional
planter in the land
whose trade is worth
anything.



Send Copy Now

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MASSACHUSETTS AGRICULTURAL COLLEGE.

Summer School of Agriculture.

The teachers' summer school in agriculture announced recently by the Massachusetts Agricultural College is now fairly launched on its career. The organization has been completed, the course of study planned, and nearly all the instructors engaged. Professor F. A. Waugh, of the College Faculty, has been made dean, Professor E. A. White director, and Mr. E. H. Scott registrar. Courses or parts of courses will be given by such well-known teachers as the following: Mr. E. H. Forbush in bird life, Dr. H. T. Fernald in insect life, Dr. J. B. Paige in domestic animals, Professor E. A. White in plant life and nature study, Mr. E. H. Scott in plant culture, Mr. Philip Emerson in methods of teaching nature study in school gardening, Mr. H. D. Hemenway in school gardening and practical gardening. Each forenoon will be devoted to regular classroom and laboratory exercises, while each afternoon will be given to some form of practical field exercises. There will also be frequent evening lectures on popular topics, and excursions to points of interest in the neighborhood of Amherst. The special aim of the summer school is to help grade teachers who wish to spend a pleasant and profitable vacation, which will fit them for better work next year. It is expected, however, that the courses will be valuable for high school teachers, superintendents and all others interested in modern methods of education. The management of the Massachusetts Agricultural College will undertake to provide rooms for a considerable number of teachers, and board will be furnished at a low rate.

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Three florists' open wagons,
three florists' top wagons and
three sets of harnesses. Can be
seen at 1 West 28 St., New York.

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Man who understands the business thoroughly; who has had experience in parks, estates and around buildings. Will pay expenses to Dayton and when work is finished, will pay return expense.

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WANTED—Three experienced men for general greenhouse work. Wages, \$12.00 per week. Peter Henderson & Co., 390 Arlington Ave., Jersey City, N. J.

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SITUATION WANTED as superintendent and gardener on private estate. Full knowledge and experience in laying out and planting, plant houses, vegetables and fruit outside and under glass. Testimonials. Married; no children. Address S., care HORTICULTURE.

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WANTED—A partner for a good wholesale and retail florist business near Boston. Must furnish some capital and be of good character. Address L. G., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—A partner of good character, with small capital, to invest in new insect exterminator at half interest. Address Partner, care HORTICULTURE, 11 Hamilton Place, Boston.

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WANTED TO EXCHANGE.

4 1/2 inch Scotti and Pieronii Ferns, for Young Rose and Carnation Stock. What have you? Cottage Greenhouses, Bushnell, Ill.

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Is Your Name In The Above
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New.

Salem, O.—Wm. Mundy, one house.
Providence, R. I.—C. H. Hunt, one house.

Richmond, Va.—Ratliffe, Tanner & McKenna, range of houses.

Additions.

Whitman, Mass.—W. B. Bowen.
Aurora, Ill.—Chas. Stolp, one house.
Adams, Mass.—T. D. Brown, extensions.

St. Louis, Mo.—W. J. Pilcher, two houses.

Lachine, Que.—C. Smith, two houses.

Chattanooga, Md.—Allen McLane, one house.

Charlotte, N. C.—W. W. Scholtz, three houses.

PRIZES FOR VINEYARD APPARATUS.

Consul-General Richard Guenther, of Frankfurt, reports that in order to promote the use of mechanical apparatus for working the vineyards the Italian ministry of agriculture invites international competition for submitting machines with motor power of any system for the cultivation of vineyards, the following being the particulars:

The prizes offered by the ministry are: No. 1, a diploma of honor and 10,000 lire (lire 19.3 cents) in cash, also the purchase of two of the apparatus which have had prizes awarded at said competitive exposition. Prize No. 2 consists of a gold medal and 3,000 lire in money. Applications from parties desiring to participate must reach the Ministero di Agricoltura, Rome, Italy, by September 15.

LIST OF PATENTS.

Issued March 12, 1907.

- 846,732. Fruit Clipper. Thomas H. Deshane, Seattle, Wash.
- 847,025. Plow. Andrew Pederson, Effington, S. D.
- 847,036. Harrow. James F. Williams, Sturgis, Miss.
- 847,051. Harrow. William B. Essick, Manley, Neb.
- 847,068. Harrow. Alfred D. Harris, Caldwell, Kans.
- 847,071. Potato Digger and Assorter. James P. Herbert, Henry S. Price and Edward J. Price, New Brunswick, N. J.
- 847,101. Cultivator. Arnold Nolf, Copemish, Mich.
- 847,125. Weed-Cutter. Robert W. Steele, Twin Falls, Idaho.
- 847,142. Adjustable Cultivator. William Wolf, Entiat, Wash.
- 847,196. Plow. Elbert R. Lovell, Brookhaven, Miss.
- 847,213. Lawn-Mower. John A. Swenson, New York, N. Y.
- 847,258. Cultivator. Louis Parenti, Isleton, Cal.

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German and American

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Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 2 1/4 " " 5.25	60 8 " " 3.00
1500 2 1/2 " " 6.00	HAND MADE
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500 4 " " 4.50	24 11 " " 3.60
320 5 " " 4.51	24 12 " " 4.80
144 6 " " 3.16	12 14 " " 4.80
	6 16 " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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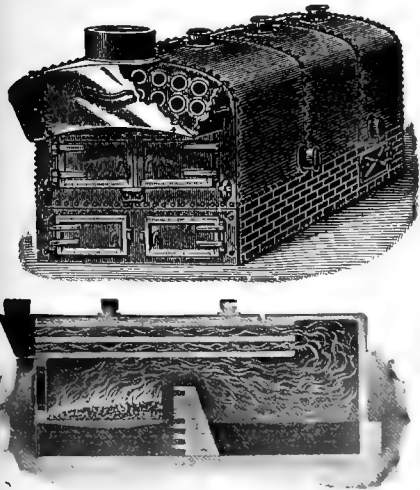
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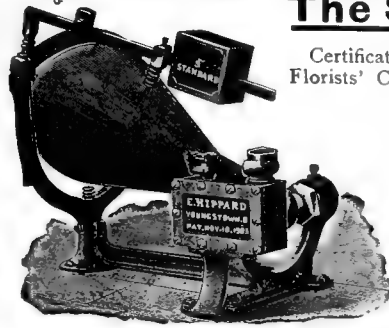
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The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

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The Mower

that will kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-inch Mower \$5. No. 2—15-inch Mower \$6. No. 3—18-inch Mower \$7. No. 4—21-inch Mower \$8. Send draft money-order or registered letter. In writing advertisers, mention Horticulture

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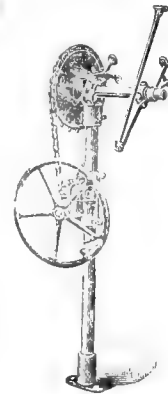
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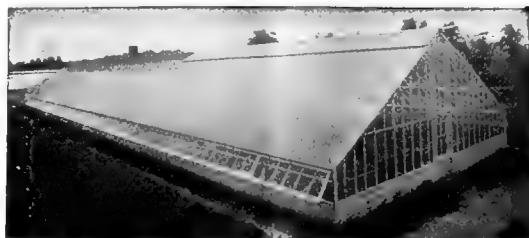


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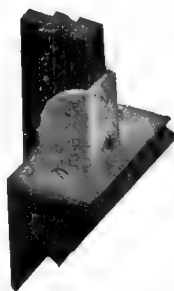
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by the foot with the sash bar clasps attached—ready for an immediate setup. If you get down to hard figuring, you'll also want our cast iron foot pieces and pipe post fittings—they will save you actual money now, in time and labor—and then think of the everlasting rotting out that you are forever free from. Send for information and prices.

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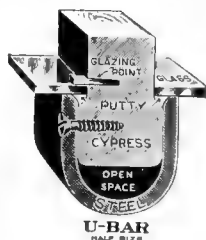
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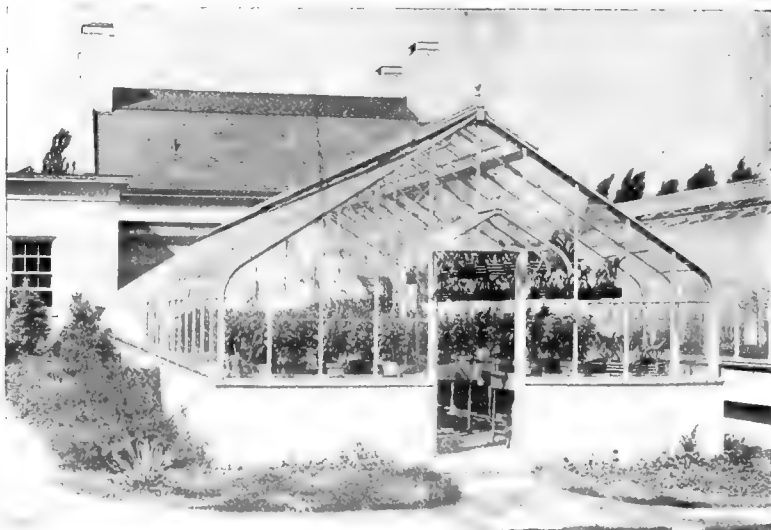
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WHAT would you think if someone came along and by a simple, attractive construction gave your plants one-third more light, and reduced your painting and and repair costs to just about nothing? U-Bar greenhouses are the best greenhouses built because that's just what the U-Bar construction does—it's not a

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HORTICULTURE

Vol. V.

APRIL 6, 1907

No. 14



KALMIA LATIFOLIA

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FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
EVERY SATURDAY
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Subscription, \$1.00*

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We have not advertised Winsor until now because we have not had to. It is so good and its merits have been so generally recognized that it has practically sold itself. Our advance orders were very large, and we did not feel the necessity of advertising it until we were in a position to fill and take care of our early orders. We are now nearly caught up with our advance orders and have a fine lot of stock on the cutting bench, so that we can promise prompt delivery on orders received from now on.

If you have not already purchased a stock of this, you should lose no time doing so. We have sold more Winsor than has ever been sold of any novelty that has ever been put on the market. Its merits and value are now so well established that one is not buying a chance. We are cutting and shipping right along between one and two thousand flowers a day to the New York market, where our flowers are sold.

There is nothing on the market that approaches Winsor to-day in carnations. It is the best seller on the market, on account of its lovely color, fine stem, perfect calyx, and fine keeping and shipping qualities—in fact, in this regard it covers every necessary requisite as a market variety.

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White Nice	Bidwell's Seedling	Muscat Hamburg
Muscat d'Alexandre	Buckland Sweetwater	
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Asparagus plumosus, Heliotrope, Fuchsias, Salvia Bonfire, Coleus Verschaffeltii and Golden Bedder and fancy varieties, Variegated Periwinkle, Ageratum Blue Perfection, Moon Vine (white, the true variety) Ipomea Heavenly Blue, Acalypha, Clematis paniculata, Parlor Ivy, Lobellias.

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Plants from 3 in. pots at \$4.00 per 100

Geraniums best varieties, rose, apple and nutmeg scented, Fuchsias, Heliotrope.

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Order Quick

Quick Delivery

Araucaria excelsa, fine plants. \$20.00 per 100 up.
Rhododendron Hybrids, 24 named varieties.
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From \$7.00 per 100 up.
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Greenhouse grown. \$4.50 per 1000 seeds. Special quotation on lots of 10,000 or more.

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 " " 2.50 " " 12 " 100 " 75 " 1000
It will pay you. Try it. Order at once.

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OUR GUARANTEE GOES WITH EVERY PLANT

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William Saunders) 50c. each
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and

HERBACEOUS PERENNIALS

	Per 100		Per 100
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" " 18 to 24 in.	6.00	<i>Rosa setigera</i> , 3 to 4 ft.	8.00
" " 2 ft., bushy	10.00	" " 4 to 5 ft.	9.00
<i>Cornus sericea</i> , 2 to 3 ft.	5.00	<i>Spiraea arguta</i> , 2 to 3 ft.	6.00
" " 3 to 4 ft.	6.00	" " 3 to 4 ft.	8.00
<i>Cornus Siberica</i> , 2 to 3 ft.	6.00	<i>Spiraea Douglasii</i> , 2 to 3 ft.	6.00
" " 3 to 4 ft.	8.00	" " 3 to 4 ft.	8.00
<i>Cornus stolonifera</i> , 2 to 3 ft.	8.00	<i>Symphoricarpos vulgaris</i> , 2 to 3 ft.	5.00
" " 3 to 4 ft.	10.00	" " 3 to 4 ft.	7.00
<i>Privet Ibotia</i> , 2 to 2½ ft.	6.00	<i>Viburnum lentago</i> , 3 to 4 ft.	15.00
" " 2½ to 3 ft.	8.00	<i>Celastrus scandens</i> , 3 to 4 ft.	6.00
<i>Rosa blanda</i> , 2 to 3 ft.	10.00		

FIELD GROWN PERENNIALS

	Per 100		Per 100
<i>Hardy Asters</i> , 25 named varieties	\$5.00	<i>Lilium auratum</i> , large,	\$8.00
<i>Boltonias</i> , in variety	5.00	" <i>album</i> , large,	8.00
<i>Coreopsis</i> , in variety	5.00	" <i>rubrum</i> , large,	8.00
<i>Delphinium hybridum</i> ,	6.00	" <i>candidum</i> , large,	7.00
<i>Eulalia gracillima</i> ,	3.00	<i>Phlox amoena</i> ,	6.00
<i>Funkia lancifolia</i> ,	4.00	" <i>decussata</i> , best named varieties,	8.00
<i>Funkia Sieboldiana</i> ,	3.00	" <i>subulata</i> , pink or white,	5.00
<i>Gaillardia grandiflora</i> ,	5.00	<i>Paenies</i> , strong roots, named varieties,	15.00
<i>Hollyhocks</i> , single mixed,	5.00	<i>Pyrethrums</i> , double named varieties,	15.00
<i>Hollyhocks Alleghany</i> ,	6.00	<i>Spiraea palmata elegans</i> ,	5.00
<i>Helianthus</i> , in variety,	5.00	" <i>alba</i> ,	5.00
<i>Hemerocallis Sieboldii</i> ,	5.00	" <i>Venusta</i> ,	8.00
<i>Iris Kaempferii</i> , named varieties,	6.00	<i>Vinca minor</i> , strong plants,	4.00
" <i>Germanica</i> , in variety,	5.00	\$10.00 per 1000	
" <i>Siberica alba</i> ,	6.00	<i>Yucca filamentosa</i> , 3 years,	8.00
" "	5.00		

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Austria, 6 ft. *Beaute Poitevine*, 4 ft. *Black Beauty*, 5 ft. *Florence Vaughan*, 3½ ft.
Italia, 3 ft. *Mad. Crozy*, 3½ ft. *Pink Beauty*, 4 ft. *Pres. McKinley*, 3 ft.
Queen Charlotte, 4 ft. *Robusta*, 6 ft.

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Canterbury Bells and Foxgloves

Two of our most showy and useful biennials, no herbaceous border being complete without them. They are of easy culture and practically hardy in the northern States if given light protection during winter by placing pine boughs through them to keep them shaded.

Campanula Medium (Canterbury Bell) single and double also *Caly-anthema* or cup and saucer variety, are raised from seed sown in May or June in pots, boxes or beds, and transplanted about nine inches apart into beds before they become too much drawn, being sure to keep them watered until they get established. In the fall, before the ground becomes frozen, place the pine boughs through them; in the spring transplant to their permanent place. In transplanting always take up a good ball of earth with them, and if possible do it when the ground is moist. After flowering they can be pulled up and thrown away; any that do not flower can be left, and they will make fine plants and flower the following year.

Digitalis (Foxglove) is raised from seed sown in June or July, outside, and transplanted when large enough, about nine inches apart. Protect during winter with pine boughs and transplant in spring to their permanent place. Foxgloves are classed as biennials, but if all stalks are cut off after flowering they will spread out and make large clumps and last for several seasons, producing taller spikes and better flowers each year.

L. G. Gattrell

Newburyport, Mass.



Pruning

A great many orchardists don't seem to have reasoned out from cause and effect, what is the right season of year for pruning, some holding that it matters but little when the operation is performed so that it is properly done, others preferring winter when there is time to spare from other occupations. But my experience leads me to the conclusion that the season at which pruning is done has as much to do with the success as the manner of doing it. It will be admitted that after the cuts have been judiciously made, the right branches, so as to preserve the contour of the tree as it grows, selected to remain and the superfluous ones removed, no spurs being

left to induce decay, that a rapid healing of wounds is most desirable. If we prune in the early spring we shall weaken the growth of our trees by the loss of their sap, which is then freely flowing; if we prune in the summer we cannot do so without damaging blossoms or fruit on fruiting trees; if we prune in the fall the wounds will not heal before the winter sets in and frost will prevent their ultimate healthy healing.

Now it remains to determine which is exactly the right time to prune, and we conclude from practice and observation that as soon as the leaves are developed, in the early summer is the best time, for the following

cogent reasons. At that time the sap has ascended to the leaves, is being elaborated by them and descending to perform its natural functions, namely, forming the tissues of which the tree is composed; it has now been changed by the action of the aeration it has received in passing through the foliage into what is technically called cambium and is only deposited in the tree at the time it is making its annual growth, and then, and then only, quick healing can take place before the hot sun of summer can burn the wounds or the cold of winter destroy them. The healing process takes place in the bark and it makes an effort to cover a wound; in small ones it succeeds and it is after a while impossible, when the trees have been pruned at that right season, to discover when a wound has been made, but on large branches it cannot cover them, but heals all round the cut. It has been recommended to paint the cuts to preserve them from the weather; this may be all right if the wood only of large wounds is painted, but if the paint is extended over the bark the remedy will be worse than the danger, for the oil in the paint will prevent the natural healing of the bark. If any protective plaster is necessary I would prefer cow dung and clay which might help rather than prevent healing.

It is well to look at these subjects from a scientific standpoint, and in this case, if we find that at a certain time cambium is being transformed into tissue and that new tissue is what is required immediately after pruning, then it is a self-evident proposition that this is the time to prune. The above is not a mere theory but is completely established by practice. Some years since I had a nursery and orchard which had been sadly neglected and about the 15th day of June I commenced to give them a vigorous pruning. Some of my neighbors thought I was crazy, but I had studied my position and made up my mind to put it into practice, and so I set to work and went through nursery and orchard. In some cases by the time the last trees were pruned the first small cuts had entirely healed over and the bark around the larger ones was rapidly healing. Later in the season I painted the wood in the centre of the larger cuts, being careful that the paint did not touch the newly formed bark. In the fall all the minor wounds had healed and the large ones in no danger from decay or forming lairs for insects or fungi. More depends upon careful and judicious pruning and at the right season, than many people imagine.

Geo Moore

Roses Under Glass

V.

REPOTTING

With the advent of spring repotting commences in earnest, and in order to keep up with the rapid progress of growth there usually is a tendency to rush this work, a practice which often leads to careless potting and consequent poor results. Repotting is one of those duties which to be profitable, must be done with speed. There is, however, a speed limit which it is unsafe to exceed, else some of the work will be certain to be done in a slovenly manner. To have the work performed thoroughly, and with a fair regard to speed, should be set as the standard of excellence.

To produce hardy, stocky plants with short jointed, solid wood, a half-inch shift is preferable to a larger one. This, while entailing more work, saves a good deal of room, which, during the next two months will be especially valuable. When plants are shifted from a 2-inch to a 2 1/2 inch pot they require no drainage. The bulk of the soil added is so small that, providing the soil is properly packed and the material upon which they are set is free from mud, there is no danger of souring.

As there is so little room around the ball when a half-inch shift is practiced, the soil should be finely pulverized before using. Also the ball should be disturbed as little as possible, simply rubbing off the sharp edges around the upper part and placing it in the pot so that the surface of the ball bears the same relation to the new as it did to the old pot, leaving ample room for water. It is safest to use no fertilizing material at this time, avoiding particularly bone meal and all nitrates. Soil left over from last season's planting should be of about the right quality.

When new pots are used particular care should be taken with the first watering as they absorb so much of the moisture that it is difficult to get the soil equally

moist. The best way, perhaps, is to water lightly and frequently until this is accomplished. Pots which have been previously used should be thoroughly washed out-side and in, and allowed to become dry before using.

After repotting the stock should be returned to the house without delay and not allowed to stand around in the potting shed, where there is always more or less draught, which is very injurious. By giving the young plants plenty of room, it is easier to keep spider in check and is beneficial to the stock by admitting more light and freer circulation of air among the foliage.

Young stock, by reason of its soft growing condition, is very susceptible to mildew, and precaution should be taken against this pest by keeping the heating pipes painted with the sulphur mixture, and paying particular attention to the ventilation. During the process of repotting is a good time to discard any diseased plants that may have escaped the grower's notice while on the bench. Disease is ever ready to communicate itself to other plants, and if allowed to take its course, will, in an incredibly short time, work havoc in a batch of young stock.

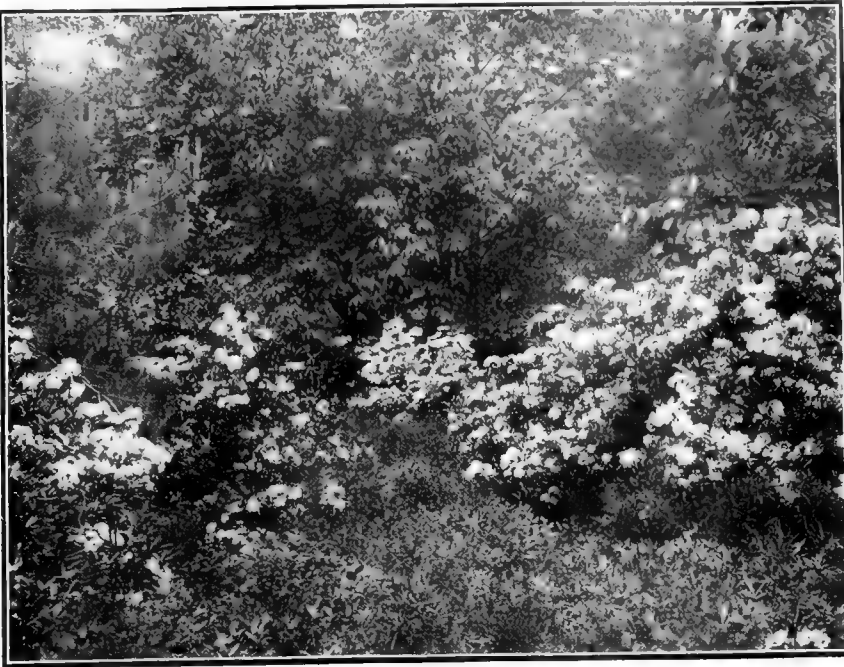
Watering young plants in pots is a very tedious operation, if done properly, and to obtain the best results requires good judgment and lots of patience. Many dry out quicker than the rest and should be watered as soon as this becomes apparent, as they are very sensitive to drying out. If a reputation for good stock is desired, careful work and careful elimination of all ailing and weak plants must be practiced at repotting time.

J. E. Simpson

Kalmia latifolia

(See Frontispiece.)

There are few more beautiful shrubs when in full flower than the mountain laurel, and a visit to the woods where it grows in quantity at the season when it is in full bloom will well repay anyone. It is a true native of the States, but it required a European to discover it and make it known. This was Peter Kalm, a Swedish botanist, in whose honor it was named. It belongs to the natural order of Ericaceae, the heath and rhododendron family; it is a beautiful sight to see a mass of it in flower, yet the individual flowers are also beautiful, the color being a delicate pink, sometimes white. If the individual flowers be examined carefully it will be seen that nature has endowed this flower with an ingenious contrivance for compelling the flowers to be cross fertilized.



In examining the flowers closely it will be noticed that there are ten little pockets in the corolla, and in a newly opened flower the anthers which bear the pollen are tucked away in these pockets, the filaments being curved and strained tight. If the flower be suddenly jarred or the anthers touched with a pin or pencil they will spring out and the pollen will fly upwards.

When a bee alights on a flower its legs touch the filaments which spring up and discharge the pollen on the under side, and when the bee visits another flower some of the pollen gets brushed off the insect's body on to the stigma, thus resulting in cross fertilization. Should the flower be covered up in order to prevent any insect from getting at it, it will die with the anthers still in the pockets. In landscape work the

kalmia may be used with good effect either in conjunction with rhododendrons or by itself. It requires much the same treatment as does the rhododendron but does not require quite so much shade as some of the rhododendrons, especially *R. maximum*, seems to enjoy.

In examining them in their wild state I have been struck by the fact that the best and most compact plants and those with the best colored flowers were growing in very sandy soil and in a clearing of the woods where they got the full sunshine the greater part of the day.

H. H. Waite

Echoes from England

NEW WINTER CARNATIONS

The Winter Flowering Carnation Society of England held their second annual exhibition today (March 13th) and a delightful lot of flowers were shown. The carnation that attracted most attention was the new clear salmon colored Mrs. H. Burnett, raised and exhibited by Mr. H. Burnett of Guernsey. The petals are slightly fringed and flatly arranged thus forming a wide bloom averaging 2 to 2 1-2 inches across. The flowers lend themselves admirably to decorative purposes. Another striking variety is Marmion said to be a cross between a Malmason and a tree or winter flowering carnation. The blooms are very large, quite 4 inches across; they are so heavily flaked with red that they appear to be red with a broad margin of white. The English-raised carnation Britannia which is not unlike Robert Craig, is particularly fine and a group of this variety was much admired. It is undoubtedly the finest variety of winter flowering carnation raised in this country. Mikado is a large flower that catches the eye at once, not on account of its beauty for it can hardly be called beautiful, but rather from its bizarre appearance. The color of the blooms is dull slaty purple tinged slightly with red.

Aurora is an attractive sort and quite distinct from the majority. I believe all the good varieties we have received from America are self-colored flowers. Aurora is heavily striped with bright rose on a buff ground. The blooms are not so large as some of the better known sorts but they are still of a useful size. Fiancee is a lovely flower and was shown by several exhibitors. Salmon Lawson, Rose Enchantress and White Lawson are sports from well known varieties. Messrs. Hugh Low & Co., Cutbush & Son, H. Burnett, Ware & Co., A. F. Dutton, C. Engelman, S. Mortimer and Mr. Smith (who raised Britannia) were the chief exhibitors.

ROSE RICHMOND

This lovely American rose has been highly honored within the last fortnight. At the last meeting of the Royal Horticultural Society it received an award of merit and today at the carnation show it was similarly honored. It is described as an "Improved Liberty" and certainly from the blooms shown it is superior. It is evidently a valuable forcing rose.

Harry H. Thomas

HORTICULTURE

VOL. V

APRIL 6, 1907

NO. 14

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292
 WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 5c

ADVERTISING RATES

Per Inch, 30 inches to page
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;
 six months (26 times) 20 per cent.; one year (52 times) 30 per cent.
 Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass.
 under the Act of Congress of March 3, 1879.

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To increase
 the list of Easter
 flowering favorites

Notwithstanding the efforts of the plant growers to increase the number of acceptable Easter plants by the addition of new and promising subjects each season for several years back, the list seems to be actually diminishing so far as a general appreciation goes and the number of varieties that can be grown and sold by the "house-full" is disappointingly small. There have

been added of late a line of forced shrubbery which seems to have made some progress in the public favor, and "Baby Ramblers" which do not ramble and which are liable to be superceded before long by something equally floriferous, but with brighter color. An increase in the varieties of true Ramblers offered is also seen but we recall no other notable additions. In the meantime scores of subjects have been tried—"weighed in the balance and found wanting," at no small expense to the plant growers and one has only to look at the records of bygone Easters as published in the trade papers to realize how the regular bill of fare once presented by the large growers has been depleted. If, instead of depending entirely upon the advice and inducements set forth by the foreign nursery traveler soliciting import orders for untried things, the commercial growers would take an occasional jaunt among the gardeners working on private estates it is not improbable that they would pick up many useful hints as to Easter flowering plants and find a wealth of beautiful material of which the buying public are, as yet, entirely in ignorance. Moreover, much of the material found blooming in the private conservatories at this season is such as may be produced at home—a qualification which should not be overlooked or underestimated.

The appeal of the Society of American Florists to the Interstate Commerce Commission on behalf of some of its members suffering under oppressive ex-

press charges on cut flower shipments, is characterized by our New York contemporary as "an evil that is only local in its application." This seems to us a very shallow view. It might with equal truth be said that small pox and yellow fever are only local in their application—at the start—but it has been learned by sad experience that the time to undertake remedial measures is at the first appearance of these troubles and the question of suppression is universally recognized as something affecting the entire country which would be endangered if the infection were permitted to spread unresisted. No sane man will upon reflection, imagine that, if the double rates imposed by the United States Express Company had been meekly submitted to, the other big transportation companies would not in a very short time have put similar rates in force all over the country. With the United States Express collecting one dollar per hundred pounds on "return empties" from New York to places twenty miles distant is it reasonable to expect that Adams Express would long continue to return empties from Philadelphia to Westerly, R. I., for instance, a distance via New York of two hundred and thirty-six miles, at ten cents apiece? This is not a fight by the S. A. F. "for a few of its members in a restricted locality" but is distinctly a fight on behalf of the entire horticultural industry of the country against a monstrous oppression that had just begun to bestir itself. We agree with our contemporary that the greatest misfortune the S. A. F. has to bear is the meagre numerical support accorded it by the trade. A society such as it is should have the loyal, substantial support of every individual engaged in any horticultural pursuit and the willing co-operation of every horticultural organization on the continent.

DAHLIA HINTS.

Nymphaea is a fine early variety, but for later in the season it is supplanted by Sylvia. Nymphaea spots badly late in the season. Storm King is also an excellent early, but White Dandy or White Swan, which follow it, are preferred by many.

The cactus dahlias are not, as a rule, good keepers or shippers, and their commercial value as cut blooms is impaired in consequence. Kriemhilde and a few of similar type of growth are exceptions. There is as yet no first-class white cactus dahlia. Eva is the best, but cannot be placed in the same class as Kriemhilde, Jones or Mawley. For the dark varieties there is very little demand.

The decorative dahlia can be cut with much longer stems than either the cactus or most of the show varieties, but the show dahlias keep so well and are so easily packed and shipped that they are still high in favor for commercial cut-flower purposes. Many dahlias which are most beautiful on the plant lack either substance, stem or keeping qualities, and fail to give expected satisfaction as cut blooms. Wm. Agnew, for instance, is far superior to any other red as a flower or a plant, but it has poor stems and sheds its petals quickly.

WHAT THE CUT FLOWER WHOLE-SALER SAYS:

A flower well grown is only half-way around the course. It is the selling that counts at the finish and on this depends bank account and coal bin.

Consignors are safest when they leave the question of selling price to their commission man's judgment. He is in touch with the pulse of the market and can be relied upon to take full advantage of conditions as they develop from hour to hour and from day to day.

Customers who buy only once or twice a year, at holiday time or during some special shortage, should not feel hurt if their order is treated as subordinate to that of the steady buyer who gives his support to the house daily, or at frequent intervals throughout the season.

SHRUB CHAT.

Sanguisorba Canadensis is a fine herbaceous plant well deserving of more general use in the hardy border.

The shrub which has been generally known as *Viburnum Molle* is now recognized as *V. venosum* var. *Canbeyi*.

A pink variety of *Clethra alnifolia* is a recent acquisition at the Arnold Arboretum. It will undoubtedly make a sensation when commercially disseminated.

"April is here!
There's a song in the maple, thrilling and new;
There's a flash of wings of heaven's own hue;
There's a veil of green on the nearer hills;
There's a burst of rapture in woodland rills;
There are stars in the meadow dropped here and there;
There's a breath of arbutus in the air;
There's a dash of rain, as if dung in jest;
There's an arch of color spanning the west;
April is here!"

OBITUARY.

Nathan Smith.

Nathan Smith, senior member of the firm of Nathan Smith & Sons, passed away on March 28 at his home in Adrian, Mich.

Mr. Smith was born in Manlius, N. Y., on Sept. 22, 1817, but at the age of three moved to Michigan, and since 1857 he has lived in Adrian. In 1876 he built the first greenhouse of the



THE LATE NATHAN SMITH.

plant which has since grown to large proportions and world-wide prominence, especially in the chrysanthemum field.

Mr. Smith was married in 1842, and his widow and son, Elmer D., survive him. He has always enjoyed excellent health, and his final illness was of but few days' duration, attributed to general wearing out. In his death there is the passing of a good man; having nothing in his heart but the best wishes for his fellow-beings, and with kindly disposition and intelligent conception of things he has blessed the world for having lived in it.

Other Deaths.

Miss Anna Free, daughter of Mrs. M. A. Free, Stamford, Conn., died on March 23.

Thomas J. Kirchner, of Cleveland, O., died on March 26 from the effect of over-exertion during a fox hunt. He was seventy-two years old.

W. J. Cochrane, manager of the bulb and flower seed department of Hurst & Son, London, England, died last week. Mr. Cochrane was in the prime of life, was a well-known figure in the London bulb and seed trade, and had many friends in the United States as well as in his own country, who will learn with sadness of his death.

The New Hampshire Senate has passed an act providing for a bond issue of \$400,000 for the construction of three boulevards from the Massachusetts line to the White Mountains through the eastern, central and western portions of the State.

PERSONAL.

Miss Katherine Olive Weathered, eldest daughter of Charles B. Weathered, and Norman Joseph Cudert, were married at Cranford, N. J., on April 3.

E. A. Tonga, formerly with the Cottage Gardens of Queens, has joined the forces of the Continental Nurseries of Franklin, Mass., and accepted the position of foreman and general superintendent of the nursery.

James Murray, gardener for Henry Clews, Newport, R. I., was taken suddenly ill last Saturday, necessitating his removal to the hospital. His condition is unchanged and critical, causing much concern to his family and numerous friends.

On Thursday evening, April 4, James Stuart was surprised by a houseful of his gardener, florist and seedsman friends, at his home in Brookline, Mass., who presented him with a loving cup and silver tea service with cordial good wishes for his success in his new home, Mamaroneck, N. Y. Much sincere regret was expressed that Boston is to lose so good a gardener, and the Boston craft so good a fellow.

PHILADELPHIA NOTES.

Paul F. Ricker read a paper on "Bulbs" before the Florist Club of Philadelphia on the 2nd inst.

Emil Woblert, Bala, has purchased the greenhouses lately occupied by F. Le Gierse, Jr., at Strathmore. His specialties will be adiantum, asparagus, callas and carnations. The Bala place is to be torn down to make way for house building.

Thomas H. Logan, superintendent of the Newbold estate at Jenkinstown, is busy planning out a new orchard to the south of the Italian gardens. When finished this will contain fan-trained, standard and pyramid peaches, apples, pears, plums, etc., including many European varieties.

The Pennock-Meehan Co. report out-of-town shipments for Easter very large.

A. R. Scott, who has just returned from a three months' trip south, says his place makes more money when he is away than when he is at home and thinks it would be a good idea to go away often. H'm. "I hae ma doots."

According to Phil the everlasting "rising eastern market" sometimes goes down hill. John ought to get married. G. C. W.

NEWS NOTES.

G. Johansen has opened a retail store in Fond du Lac, Wis.

C. P. Loder has opened a retail store at 11 Common St., Waterville, Me.

Ben Boldt of Denver, Colo., who spent the winter in Germany, has now returned and taken possession of the greenhouses of August Schenkel, W. 29th avenue and Homer boulevard.

Joseph Myrtle, a florist of 30 Wilbur Av., Dutch Kills, N. Y., was shot on the evening of March 28 as he was returning home late. Three Italians were arrested. The wounds were not serious.

NEWS OF THE CLUBS AND SOCIETIES

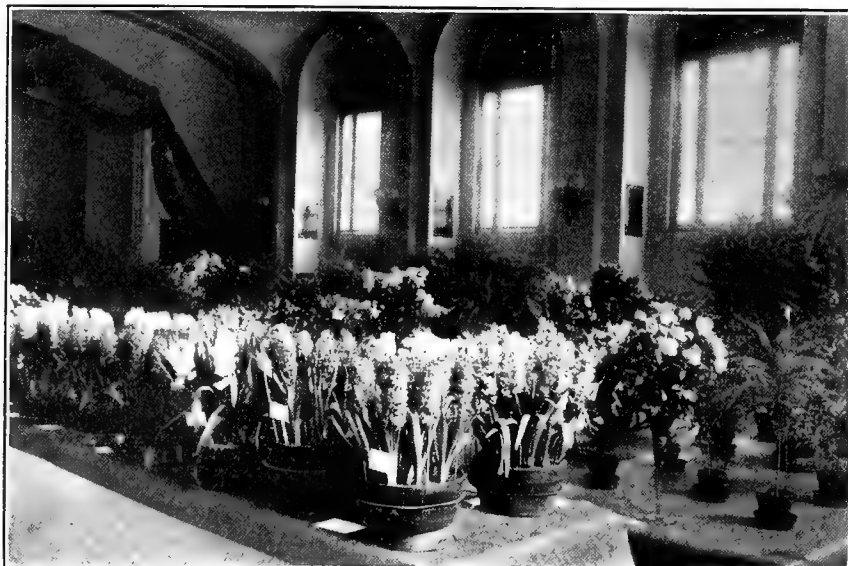
TARRYTOWN HORTICULTURAL SOCIETY.

The regular monthly meeting of the Tarrytown Horticultural Society was held March 26th, President Howard Nichols in the chair.

Mr. Wadsworth Lewis offers a silver

three prizes of \$5.00, \$3.00 and \$2.00; also three other classes with premiums the same, for white, yellow and recently introduced varieties. As regards plants, prizes of \$5.00, \$3.00 and \$2.00 are offered for the best plants of any varieties. M. B. Faxon reported

display of flowers and plants was not large, but was good nevertheless. The floral committee consisting of Messrs. Torrey, Hills, Bauman, Wedemeyer and Monk awarded to I. D. Siebert, for a very fine specimen of Empress of India azalea, 20 points; and to R. A. Currie 15 points for Hydrangea Otaksa. The remainder of the evening was spent in discussing the Easter outlook.



SPRING EXHIBITION AT BOSTON
View in Lecture Hall.

FLORIST CLUB OF PHILADELPHIA

A largely attended meeting of this club took place on the 2nd inst. to hear the address by Paul F. Richter on Bulbs. This was listened to with much attention and was tendered a vote of thanks by the members. We hope to give same in full in an early issue. Jno. Westcott exhibited a plant in bloom of the new pink spirea Queen Alexandra and D. B. Keptyn from Holland told how it had originated. Geo. Buxton having won permanently the Lord and Burnham cup for American Beauty Roses celebrated the event in a free set-out which was much appreciated. Many new members were taken in and much enthusiasm was manifested in regard to the coming convention. Fred Hahman, the vice-president, occupied the chair in the absence of President Pennock. Our general secretary, Edwin Lonsdale, was also absent. David Rust officiated in his place.

HORTICULTURAL SOCIETY OF NEW YORK.

The regular monthly meeting of the Horticultural Society of New York will be held in the American Institute rooms at 4.30 on Wednesday, April 10th, when the subject for discussion is "Plants for Shaded Gardens." The subject will be introduced by Parker

pitcher to be competed for at the fall show, and Mrs. Geo. Lewis offers a silver cup. Julius Roehrs Co. offers \$25.00 for the best table of orchids; H. A. Dreer \$10.00 for the best collection of stove plants; F. R. Peirson Co. a \$25.00 silver cup for carnations; President Howard Nichols \$10.00 for the best six pot plants of chrysanthemums, pots not to exceed seven inches. The executive committee reported on the schedule for the fall show, and suggested a few minor alterations from last year. It was voted to print a preliminary schedule and mail same to members, the complete schedule to be printed as soon as the secretary received all the special prizes. The monthly prize for the best display of flowering plants and cut bloom was awarded to D. McFarlane, as was a certificate of merit for the same exhibit. A certificate of merit was awarded James Ballantyne for his exhibit. Exhibits consisted mostly of Cineraria stellata and bulbous stock in pots and pans. A paper on hardy out-door roses was read by D. McFarlane and freely discussed.

D. McFARLANE, Cor. Sec.

COLUMBUS FLORIST CLUB.

Last Tuesday evening our club held its last regular March meeting. President Stephens was in the chair, and Secretary McKellar was back at his desk after his attack of the grippe. The committee on the chrysanthemum show, Messrs. Faxon, Woodrow, McKellar, Knopf and Stephens, submitted the following schedule of prizes, and they were unanimously approved by the club: For the best vases of five blooms, on long stems, any pink or red variety,

that as yet permission had not been obtained from the Columbus Board of Education to distribute the penny packages of flowers and vegetable seeds to the school children. The club's seed committee appeared before the school board at their last meeting to ask this permission, but did not succeed in getting a hearing. Owing to the nearness of Easter the



GROUP OF ACACIAS AT BOSTON EXHIBITION
By Thomas Roland.

Thayer Barnes of the Garden Magazine.

The schedule for the May exhibition, which will be held as usual in the Mu-

EXHIBITION OF THE SCRANTON FLORISTS' CLUB.



ANTON SCHULTHEIS,
President, Scranton Florists' Club.

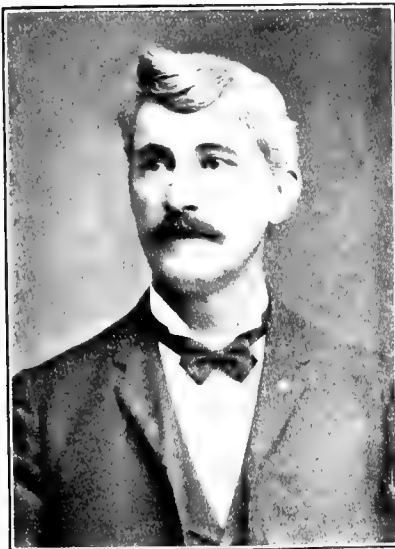
seum Building of the New York Botanical Garden, is already in the printers' hands and will be ready in a few days for distribution. The dates for the exhibition are May 8th and 9th.

The annual meeting of the society



Notes on the exhibition illustrated herewith were published in our issue of last week. We should add to the list of awards therein mentioned, honorable mention to T. B. McClintock

year and a half old and has already a membership of seventy-five. Monthly meetings are held at each of which members' exhibits are held to which points of excellence are awarded and the exhibitor showing the largest num-



T. B. MCCLINTOCK,
Secretary, Scranton Florists' Club.



takes place on Wednesday, May 8th, on which occasion the address will be made by G. T. Powell, "Renovating the Old Orchard."

Cash prizes are offered by the Horticultural Society of N. Y. and the N. Y. Botanical Garden, and the Society's medals may also be awarded to meritorious exhibits, as well as cash prizes unlisted.

Copies of the schedule may be had on application to the office of the Horticultural Society, room 60, 55 Liberty street, New York.

for old and new style baskets and for floral display. This was the first annual spring flower show of the club and the first of its kind to be held in Scranton. Admission was free to the public. The Florists' Club is but a

ber of points at the end of one year will be entitled to a silver cup. The officers of the club are Anton Schultheis, president; Edgar McConnell, vice-president; T. B. McClintock, secretary; Wm. MacDonald, treasurer.

The Continental Nurseries of Franklin, Mass., under the management of Mr. M. J. Van Leewen, have made connections with several Holland firms to represent them in the sale of their stock here. As the commencement of

this venture they received a large shipment of stock last week by S. S. Statendam. Mr. Van Leewen, who is a native of Holland, will devote much of his attention to the introduction of and give a large corner of the nurseries to Holland-grown stock.

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ITALIAN GARDENS.

(Abstract of a lecture by J. K. M. L. Farquhar before Massachusetts Horticultural Society.)

The oldest form of Italian garden is undoubtedly the courtyard garden, consisting of a geometrical arrangement of the court into formal beds and borders with convenient paths laid in mosaic or paved, and embellished with statuary, sculpture, sundials, fountains and stationary wash-basins of marble or bronze. Pompeii had numerous gardens of this class, several of which have been restored by the Italian Government, and it is interesting to see the attendants turn the water on the fountains through the system of pyramidal lead pipes which did service 2,000 years ago.

The courtyard garden is of Oriental idea—enclosed for protection, surrounded by an arcade on three or four sides of its rectangular area, and furnished with benches and other accessories to comfort. It was a garden for the family to live in, serving the same purpose as the small garden in the rear of the city houses of Japan, or the high-walled gardens of China, and like these existed for the family rather than for the passer-by.

The second step in garden evolution is seen in the hillside gardens. These occur chiefly throughout central Italy and mark a more advanced state of civilization, when personal security had become established, and when a wall ten or twelve feet in height afforded ample protection to the inmates of the villa. The hillside villa was usually rectangular, the house occupying the highest ground in the rear. The ground was arranged in a series of terraces which were usually separated by parapets frequently surmounted by balustrades. One terrace could be arranged with arched recesses in the retaining walls, in some of which were erected statues for ornament and in others benches where one might enjoy a sun bath quite protected from any chilling breeze. Another terrace would be an extensive pergola, affording a pleasant, shady promenade which the summer sun could not penetrate, and where the inmate might listen to the dripping water from the fountains on a terrace yet below. It was in these hillside gardens that the great possibilities of landscape effect dawned upon the designer. The immediate environment, often uninviting, had to be obscured. If the protecting wall 10 or 12 feet high was insufficient screen, it could be supplemented by a screen of cypress, the fine foliage of which distinguished it from the pines and firs, and the graceful tapering form of which carries the gaze of the observer to the distant surroundings.

It must be noted that through these stages of development the Italian garden remained strictly formal, and its lines were made to harmonize with those of the architecture to which it was linked. It had three chief elements—marble, water and the foliage—flowers were incidental.

An enlargement of the hillside villa marked the third stage of evolution, and brings us to the elaborate garden of the Renaissance. The terrace was broadened into an elaborate geometrically arranged area, in which were disposed sculpture, statuary, sundials and benches of marble. Flower beds were arranged in elaborate geometrical design, and numerous architectural features were introduced, such as well-heads, pergolas, fountains, cascades, and other ornaments. It is this enlarged garden, in its great variety of character and feature, yet always rigidly formal, that has aroused so much interest and the desire on the part of many garden lovers in this country to reproduce it here.

About Naples we find the slopes of the hills covered with compact walled villas arranged with convenient paths, a few cypresses standing like sentinels about the house, here and there an olive, orange or lemon tree, and an abundant growth of figs and grapevines.

In Rome, the villas average larger; they are more elaborate and contain a greater variety of trees, shrubs and plants. The celebrated villa Borghese is a beautiful public park with fine drives, interesting groves of umbrella pine, hedges of ilex and boxwood, the latter frequently forming a background for statuary. It is well kept and contains numerous elaborate flower beds. Flower beds are frequently arranged with a statue for a centerpiece. Such a bed in the Borghese has for its centre an unknown statue found in the Forum; for its edging coral rock, inside of which were planted rows of white-leaved gnaphalium, pink ivy-leaved geraniums and white Paris daisy, in the order named; behind these followed blue ageratum, balsams, scarlet salvia, African marigolds, canna, dahlias, New Zealand flax and Abyssinian banana. The only thing Italian in character in such a flower bed is the statue in the centre; the floral treatment is borrowed from western Europe and is quite out of place. In Rome there are many beautiful water gardens and one is often surprised at the great effects produced with a comparatively small flow.

In southern Italy a large portion of the villa is generally devoted to fruit culture, especially figs and grapes. The latter are supported on live elms or poplars, whose trunks and short pruned limbs serve as trellises.

Florence undoubtedly holds first place for beautiful environment and fine villas. The famous Boboli garden of the Medici family is one of the largest and best preserved. It is entered through an avenue arched with ilex trees, leading to a vast amphitheatre at the rear of the Pitti Palace. It contains many fine avenues, which are perfectly straight, and to me much less interesting than the beautiful Rampa farther up the hill. The Rampa is a public driveway leading along the face of the mountain, lined on both sides

with charming villas and commanding a fine view of the city and its surrounding mountains. Its culminating point is the Piazza Michael Angelo, a magnificent terrace affording a commanding view of the vast amphitheatre-like landscape in the city of art, forms the arena.

In Florence and northwards, garden arrangement has suffered encroachment of the ideas of western Europe, and it is only in the more neglected gardens that the architectural features of the 16th century remains. Many of the older villas have been occupied by foreigners, and foreign ideas, chiefly French and English, have been introduced. The architectural garden, too, affords little opportunity for elaborate floral display, and it has been ruthlessly modified to overcome this limitation. Whenever we find elaborate garden decoration, it follows French ideals, the only difference being that the colors harmonize better and the designs are more graceful in form than the French.

The grounds of the Milan Exposition last year were profusely planted with formal flower beds and borders all of refined and tasteful arrangement, but there was not a single example of the old Italian style of planting. The Italian garden of the 16th century is virtually a thing of the past. It is not built in Italy now and in but rare instances are the old ones kept up. Expense of construction and maintenance seems to stand in the way. There is also a taste for more lavish floral display, to which the arrangement of the old garden is not adapted. We also find in the north of Italy occasional fine examples of natural gardening. In these the most notable feature is the skill with which the gardener uses water in his composition. In American gardens we have hardly used water; we use it in our parks—why not in our gardens?

The best examples of Italian gardens in this country are much more formal than perhaps any in Italy. There, the flowers are a secondary consideration, here the garden exists for them. A natural garden is a much better home for flowering plants than an architectural one on the Italian plan; yet there are many features of the Italian garden which may be profitably introduced here. It will be prudent to say, however, that it should never be attempted upon a small scale or where there is any thought of economy. It is expensive to build, expensive to plant and the most expensive of all gardens to maintain. Yet there are instances where a modified Italian garden may be advantageously introduced. It may be made a suitable setting for an imposing residence, and its features may add much to an architectural design. The present method of using cement, where cut stone was formerly used, will reduce the cost of construction. Almost any kind of stone may be closely imitated by mixing the stone, crushed, with the outer layer

of cement. Even the pergola—pillars and roof—may now be reinforced cement construction, which, if well done, should last as well or better than stone. The beautiful cypress is not hardy in our climate, but we have a satisfactory substitute in the pyramidal arbor vitae, *Thuja occidentalis* pyramidalis.

Water may be profitably introduced as an element of garden construction. Water pipes and basins must, however, be arranged so as to be thoroughly drained off during winter to avoid injury by frost.

To maintain a continuous floral display, the plants must be frequently renewed. In many of the older gardens of Italy we find the floral collection confined almost exclusively to pots and vases. In an old garden in Naples last summer I found growing in pots and vases—amaryllis, agave, carnations, chives, chamaerops, chrysanthemums, lantana, pheasant-eye pink, pelargonium and phormium, while I found only 14 kinds of flowering plants growing in the grounds, of which only two—petunia and amaranth—were in bloom.

The Italian garden as a whole is not to be recommended for general adaptation here. There are, of course, exceptional places like two of our beautiful estates in Brookline, a new estate at Sharon, Connecticut and the vast estate of Biltmore, where it may be appropriately used. American conditions differ from those of any other country, and no imported style exactly fits them. Each garden location calls for a particular style of treatment, which will fit its conditions and environment, and I am forced to the conclusion that in the majority of cases, the more natural the arrangement the more satisfactory will be the result. Where a formal treatment is inevitable, the English terrace garden with a single parapet will usually be found more satisfactory than the elaborate and expensive 16th century garden, which the Italians themselves no longer build.

TREES IN CITY STREETS.

Jackson Dawson in Bulletin of American Association of Park Superintendents.

It seems that the tree planting committees are losing interest, and we will soon have no trees within our city streets. There is no reason why our streets should be treeless, if the proper precautions be taken and suitable space filled with good loam and planted with good healthy trees, prepared beforehand in suitable manner, where they would have plenty of room to develop, training them in a fit way for street adornment. What has been done in other cities certainly can be done in our own. We are too careless about this; we allow anyone to destroy trees; telegraph men, and wiremen of all descriptions. Careless teamsters hitch their horses to unprotected trees, and in a few months the growth of years is ruined. We cannot put this in language strong enough. It is a shame and disgrace that our trees are treated as they are, and there should be a law that would make it a criminal offence for any one to injure a tree on the public highway. Until some such law is enacted and carried out, we cannot have our trees protected as they should be.

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THE EVERBLOOMING SALVIA

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Strong Plants from 21-2 in. Pots 75c per doz., \$5.00 per 100, \$45.00 per 1000

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3-4 ft. size.....	\$6.00	\$50.00
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MOVEMENTS OF GARDENERS.

Mr. Bishop, lately gardener on the Bancroft estate, Newport, R. I., has been appointed gardener for Miss Fanny Foster.

C. Cooper, formerly foreman under E. O. Orpet at South Lancaster, Mass., has taken a position in charge of Miss Amy Lowell's place at Brookline, Mass.

Our item regarding Mr. Thos. McHugh of Montreal, published last week, proves to have been incorrect, as Mr. McHugh stays with the Forest and Stream Club.

MOON VINES

(Ipomoea Noctiflora, A. W. Smith, originator), best pure white, largest and most fragrant moonvine in the world. I have made a specialty of them for the last 15 years, and am known as the moonvine grower of America, and grow yearly about 20,000 2½ in. pots, \$5.00 per 100. Now ready.

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Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

STATEMENT OF PLANT IMPORTS.

There were entered at the port of New York during the week March 26 to April 1, 1907, the following plants, etc.:

From Holland—M. F. Berry, 10 cs. plants; H. F. Darrow, 20 cs. plants; John Dunn, Jr., 20 cs. plants, 80 tubs plants, 2 cs. bulbs; Wm. Elliott & Sons, 22 cs. plants, 47 cs. trees; McHutchison & Co., 85 cs. plants, 4 cs. trees; P. Ouwerkerk, 82 cs. trees; F. R. Pierson & Co., 29 cs. trees; C. B. Richard & Co., 20 cs. plants; August Rolker & Sons, 20 cs. plants; Talbot Root, 22 cs. plants; Stumpp & Walter Co., 1 cs. plants; J. M. Thorburn & Co., 3 cs. plants; Vaughan's Seed Store, 22 cs. plants, 9 cs. roots; C. W. Ward, 6 cs. plants; sundry forwarders, 365 cs. plants.

From France—C. C. Abel & Co., 11 cs. plants; H. F. Darrow, 5 cs. plants; August Rolker & Sons, 31 cs. plants; Talbot Root, 1 pkg. plants; Sundry forwarders, 166 pkgs. plants, 19 pkgs. trees.

From Germany—Chas. F. Meyer, 150 cs. lily of the valley pips; J. M. Thorburn & Co., 2 sacks seeds; Sundry forwarders, 60 cs. lily of the valley pips, 5 pkgs. plants.

Via Southampton—C. C. Abel & Co., 18 cs. plants; H. F. Darrow, 4 cs. plants; Wm. Elliott & Sons, 9 cs. plants; J. Guille, 6 cs. plants and bulbs; McHutchison & Co., 2 cs. plants, 11 cs. trees; General order, 5 cs. trees; Sundry forwarders, 102 cs. plants, 5 cs. trees.

From Glasgow—Perry, Ryer & Co., 8 pkgs. trees.

PUBLICATIONS RECEIVED.

N. J. Agricultural Experiment Stations. Bulletin 200. The Cabbage and Onion Maggots, by John B. Smith, entomologist and E. L. Dickerson, assistant.

Agricultural Experiment Station of R. I. College of Agriculture and Mechanic Arts. Bulletin 116; corn selection. Bulletin 117; analysis of Commercial Fertilizers.

Report of improvements to Willard Park, Battle Creek, Mich. By Howard Evarts Weed, landscape architect. For a city of upwards of 30,000 population with but 28 acres of park area, the advice contained in this report is very pertinent.

Culture and History of Winter Flowering Sweet Peas, by A. C. Zvolanek, Bound Brook, N. J. Mr. Zvolanek gives a very interesting history of his methods in producing the valuable race of Christmas blooming peas which bears his name.

Bulletin No. 116, March, 1907, of the Massachusetts Agricultural Experiment Station, treats of the San Jose Scale and experiments for its control by H. T. Fernald. Full directions are given for making and applying the lime-sulphur wash. Copies may be had by applying to the Agricultural Experiment Station, Amherst, Mass.

Bulletin of American Association of Park Superintendents, No. 2, published under date of February, 1907, contains many articles of great value to the gardener. Pruning, Moving Large Trees, Damage to Roads by Automobile Travel, Oiled Roads and Winter Sports for Parks, are topics on which contributions have been made by J. A. Pettigrew, John C. Olmsted,

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FOR

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A. Bouvier, velvety red.....
Alsace, creamy white.....
Alemannia, salmon, yellow border.....
Australia, yellow.....
Beaute Poitevine, crimson scarlet.....
Chas. Henderson, crimson.....
Chicago, vermillion.....
Egandale, cherry red.....
F. R. Pierson, scarlet streaked yellow.....
Fl. Vaughan, yellow spotted red.....
Flamingo, crimson.....
Italia, golden yellow, spotted red.....
J. D. Eisele, crimson y flow throat.....
Longford, scarlet bordered yellow.....
Mme. Crozy, vermillion bordered yellow.....
Pres. McKinley, crimson.....
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Any of these choice sorts

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Tuberose Rooted Begonia Bulbs (Splendid Bulbs)

Single, separate colors, Scarlet, Crimson, Rose, White and Orange, Per doz. Per 100 Per 1000
Single, choice mixed. \$0.35 \$2.25 \$20.00
\$.35 2.00 18.00

Giant-Flowering Gloxinias (Exceptional Quality)

Separate colors. Spotted Red, White, Blue, Red with White Border and Per 100 Per 1000
Blue with white border \$0.50 \$3.50
Choice mixed .45 3.25

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Herbert W. Johnson, of the late firm of Johnson & Stokes, President

CATALOGUES RECEIVED.

Champion City Greenhouses, Good & Reese Co., proprietors. Spring trade list for April, May and June, 1907.

George H. Walker, North Dighton, Mass.—Catalogue of Dahlias, Asters, Hardy Chrysanthemums, Phlox and Roses.

Harlan P. Kelsey, Highlands Nursery, Salem, Mass.—Some new and rare hardy American lilies, cypripediums and trilliums.

VALLEY CLUMPS
\$15.00 100

Gladiolus Fine MXD
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Theodore Wirth, H. B. Clewley, R. H. Warder, W. J. Zartman, W. T. Egeron and a dozen more of the leading lights in park work.

A Manual on the Propagation and Cultivation of the Peony. Edited by C. S. Harrison, York, Neb. Everybody who knows C. S. Harrison, (and what peony lover does not) will realize without further argument, that this 70 page pamphlet is worth much more than its price, 25 cents. Mr. Harrison, taken by surprise by the reception accorded his first attempt at a peony manual—the first ever issued in any language, has re-written it, adding much valuable information; in fact, most of the matter is new. Much labor has been spent in an endeavor to give a correct descriptive list of leading varieties. We like Mr. Harrison's advice to beginners in peony cultivation "Begin with thoroughbreds instead of scrubs."

W. L. Smith, an employee of the Frank S. Platt Co., New Haven, Conn., accidentally fell down the elevator shaft on March 28, breaking his arm and receiving a slight concussion of the brain.

C. C. MORSE & CO.

EASTER SHOWS AT PITTSBURG.

The Easter displays in the show places of Pittsburgh and Allegheny according to public opinion surpass the efforts of former years. This year's exhibit is the finest ever made at the big conservatories at Schenley Park, where the array of Easter plants is so gigantic that to mention everything worthy of note would take up unlimited space. Special efforts are made here for Easter and spring decoration. In the greenhouses devoted to flowering plants are large blocks of Azalea mollis, Cinerarias stellata and hybrida, Calceolaria hybrida and Lilium longiflorum.

One large house is devoted almost entirely to Hybrid Perpetual roses, which have been timed to a nicety and which certainly look fine. Crimson Ramblers are fairly well flowered. The centre staging of another large house is filled with Hydrangea Otaksa which are flowered nicely. Bulbous plants are grown by thousands, and are effectively grouped in large blocks in the large centre stagings which lend themselves conveniently to this style of arrangement. There are also fine groups of amaryllises and a number of Canna Florence Vaughan were particularly good. Amongst the miscellaneous plants on the side staging are gloxinias, Iris florentina, Lilium sibericum, in fact everything that could be got into flower. The orchid family is poorly represented, Phalaenopsis rosea, Cattleya Skinneri and Dendrobium thrysiflorum and densiflorum only being in flower.

The number of visitors on Easter Sunday broke all records. The management, however, have a splendid system of handling large crowds and a continual stream of people passed in and out of these magnificent structures. It was estimated that at no time during the afternoon were there less than 2500 people in line waiting their turn to pass through.

In the Allegheny City Park Conservatories is a very tastefully arranged group of spring flowering plants, the most noticeable being the very large plants of Azalea indica several of which must be about seven feet in diameter and covered with flowers. Quite a number of orchids are in flower, amongst them being Oncidium flexuosum, Aerides Fieldingii, Vanda tricolor planilabris and Vanda suavis.

At A. R. Peacock's, North Highland avenue, Mr. Jenkinson has arranged a fine display of cinerarias, tulips, hyacinths and other spring flowering plants. Here is the finest strain of Primula obconica the writer has ever seen. The centre staging of one of the largest houses is entirely filled with it and the effect is grand. On the side benches are Begonia Gloire de Lorraine which have been cut back and are now in their second glory. The rose and carnation houses are also in splendid shape. A large number of visitors take advantage of Mr. Peacock's goodness in thus sharing the pleasures of his fine greenhouses with his less fortunate neighbors.

At H. C. Frick's, Homewood Ave., may be seen a fine example of culture and arrangement reflecting great credit upon Mr. Frazer. The amaryllises, amongst which are some very fine varieties, the flowering peaches, hawthorns and double cherries all help to make a harmonious and pleasing array. Sev-



Cypripedium Reginae

Showy Ladies' Slipper

The rarest and most beautiful of our Hardy Orchids.

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3-4	75c	5.50

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however choice, results in harsh effects and clashes of color and form,—in other words, "plants out of place."

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Strong, Bushy, Transplanted. Fine, healthy stock. \$9 per 1000. Cash with order.

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eral orchids are in flower in the orchid house. Cattleya Trianae, Dendrobium nobile, Dendrobium thrysiflorum and Oncidium sarcodes adding their charm to the exhibit. For three weeks the exhibition will last. On Sunday evenings the greenhouses may be seen by electric light from seven until ten o'clock. JAS. HUTCHINSON.

—ORCHIDS—

Some of the varieties we shall import this spring:

Cattleya, Trianae, Labiata, Mossiae, Mendellii, Speciosissima, Gigas, Schroderae; Dendrobium nobile, Wardianum, Phalaenopsis; Vandas Coerulea, Kimballiana; Oncidium Varicosum; Lelias Anceps, Autumnalis, Albida. Write for prices on above.

CARRILLO & BALDWIN, SECAUCUS, N. J.

ORCHIDS Importations, 1907

Save money and get our quotations on Cattleya labiata, Trianae, Percivaliana, Mossiae, Mendellii, Schroderae.

JULIUS ROEHRS CO.

Largest Orchid growers and importers in U. S.
RUTHERFORD, N. J.

Orchids for Spring Delivery

Cattleyas, Laelias, Oncidiums, etc.

Write for price list. Finest quality of Peat and Moss and Orchid Baskets on the market.

Give me a trial order.

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ORCHIDS

Arrived in exceptionally fine condition the following ORCHIDS: LAELIA PURPURATA, CATTLEYA HARRISONIAE, C. INTERMEDIA, C. TRIANAE, C. LEOPOLDII and many more.

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ORCHIDS Direct from the Collectors

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We are giving quotations upon our entire list of South American, Philippine and East Indian Orchids. Choicest varieties of Cattleyas, Odontoglossums, Pilmuna, Cypripedium, Phalaenopsis, Dendrobium and Vandas. Among them the very rare Vanda Sanderiana for delivery June or July.

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SEASONABLE STOCK In A No. 1 Condition

From 2 in. Pots 100 1000

Hardy Chrysanthemums, Large-flow- ering or Aster.....	\$3.00	\$25.00
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Alternantheras, 6 varieties, strong.....	2.00	18.00
Lemon Verbenas, (Aloysia citriodora).....	2.00	18.00
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Petunias, Dreer's Single.....	2.00	17.50
" Double, fringed.....	3.00	25.00
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Cash with Order, Please.R. VINCENT JR. & SON
Growers of Plants for the Trade. WHITE MARSH, MD.

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ing varieties all to name: S. A. Nutt, Poitevine, La
Favorite, Perkins, Brett, Viaud, Castellane, Doyle and
several others out of 2 1-4 in. pot, with or without soil.

	2 1-4 in pot per 100	Rooted Cuttings per 100
Fuchsias in variety.....	\$3.00	\$1.00
Heliotrope.....	2.50	1.00
Sweet Alyssum.....	2.00	1.00
Lobelia.....	2.00	1.00
Ageratum.....	1.50	.50
Rose Geranium.....	2.00 fine plants	
Coleus in variety.....		.60
Coleus Golden Bedder.....		.60

Cash must accompany order.

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154 Van Vranken Av., SCHENECTADY, N. Y.

AZALEAS in All Colors

From 50c. to \$5.00

Also a fine lot of Palms in all sizes, such as
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Araucarias, Aspidistras, Ferns suitable for
dishes, in leading varieties. Cibotium Schiedel
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THE QUEEN

a wonderful bloomer; flowers from four to four and
one-half inches in diameter; white mingled with pur-
ple, nicely fringed; an early bloomer; fine seller for
Decoration Day; planted outdoors will bloom all
summer. Strong plants, ready Feb. 15, \$1.50 per
doz.; \$10.00 per 100; \$90.00 per 1000. Rooted Cut-
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in full bloom by Decoration Day.THE YATES FLORAL CO.
Joseph Traudt, Prop. Canajoharie, N. Y.
Scranton Florist Supply Co.
SCRANTON, PA.

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Nursery Stock, Palms, Azaleas,
Bays, Roses, Buxus, Evergreens,
and Lily of the Valley, "Excel-
lenta" and "Superior."JOHN SCHEEPERS & CO.
4 and 6 Old Slip, NEW YORK CITYLook through the Buyers' Directory
and Ready Reference Guide. You
will find some good offers there also.

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pay. So can YOU

The Best for Summer Cutting

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\$1.50 per doz., or \$10.00 per 100Storm King \$1.00 per doz., \$8.00 100
Whole Roots, Field Grown

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RHODODENDRONS—A grand lot of well budded plants of perfectly
hardy varieties.

16 to 18 inches high, 73 cts. each;	\$8.00 per dozen;	\$65.00 per 100
20 to 24 " " " \$1.25 " "	12.50 " "	100.00 " 100
30 to 36 " " " 2.50 " "	30.00 " "	225.00 " 100

BOXWOOD EDGING—Very heavy bushy stock, 5 to 6 inches high, the
finest we have ever handled, \$5.00 per 100; \$45.00 per 1000;
special prices for large quantities.HYDRANGEA PANICULATA GRANDIFLORA—Extra heavy bushy
plants, 24 to 30 inches high, \$1.25 per dozen; \$10.00 per 100.CLEMATIS PANICULATA—Extra heavy two year old roots, \$1.25 per
dozen; \$8.00 per 100; \$70.00 per 1000. Strong one year old
roots 75 cts. per dozen; \$5.00 per 100; \$40.00 per 1000.CLEMATIS, Large Flowered Hybrid Varieties, such as Jackmani,
Henryi, Duchess of Edinburgh, etc., in extra heavy two year old
stock, \$3.00 per dozen; \$20.00 per 100.AMPELOPSIS VEITCHII—Strong two year old plants \$1.50 per dozen;
\$10.00 per 100; three year old plants \$2.00 per dozen; \$15 per 100.HARDY ENGLISH IVIES—Strong plants in four inch pots, about 3
feet high, \$1.25 per dozen; \$10.00 per 100.HARDY PERENNIAL PHLOX—All the popular standard varieties in
strong one year old field grown plants, now in three inch pots, far
superior to winter propagated stock as usually sent out. 75 cts. per
dozen; \$5.00 per 100; \$40.00 per 1000.HARDY PERENNIALS—The greatest assortment and largest stock in
the country; write to us for anything you require in this line.STRONG TWO YEAR OLD ROSES—We make a specialty of strong
two year old Roses, field grown stock, which during the winter
months has been potted up into 5 and 6 inch pots, stored in cold
houses and is now breaking into growth nicely, just the kind of stock
to sell to your retail customers for immediate planting.For a complete list of seasonable stock
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The above prices are only for Florists or those engaged in the trade.

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Dracaena Terminalis, finely colored, 4 inch pots, -	\$4.00 per doz.
" " " 5 inch pots, -	5.00 "
Cocos Weddelliana, fine plants, 3 inch pots, -	2.00 "
Kentia Belmoreana, " 24 to 28 inches high, -	9.00 "
" " " 18 to 20 " " -	7.50 "
Araucaria Excelsa, " 15 to 18 " 4 tiers, -	7.50 "
" " " 20 to 24 " 5 tiers, -	10.00 "
Pandanus Utilis, " 5 inch pots, -	4.50 "

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bulbs which will insure
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GARDENIAS

**CARNATIONS
VALLEY**

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See our Greens Advertisement on page 471.

L. D. Telephone, Main 2618.

CUT FLOWER MARKET REPORTS

BOSTON Boston's Easter was a remarkable one. Never within the memory of the oldest inhabitant has the weather been finer for Easter Saturday. It was in all respects a glorious June day—the culmination of a week of sun and warmth—which brought forward the lagging flower crops with a rush that completely upset the calculations of everybody and administered a crushing blow to the foolish operator who had stored away his roses and carnations a week beforehand, in the mistaken notion that they would appreciate in value. The salubrious weather conditions had a deleterious effect on the quality of the violets in this market, the single variety largely predominating, but it also saved the violet from the lamentable fate of the rose, carnation, daffodil and lily of the valley. The great purple heaps melted away in stores and on street corners with unprecedented rapidity, and in the great throngs of summer-dressed people that sauntered and surged up and down the retail business streets violet corsages were seen by thousands. Primroses also came in for a goodly share of the corsage trade.

But aristocratic Boston had little taste for cut flowers this year, other than the item above mentioned. It was to the plebeian element that the cut flower grower had to look for comfort after the out-of-town dealer had been supplied. Sturdy American Beauties, carnations of high degree, sweet peas, daisies, snap dragons, freesias and lily of the valley stood untouched in the display refrigerators, while all was hustle and bustle over lily plants, azaleas, rambler roses, apples, lilacs, rhododendrons, hydrangeas and acacias. Some had hopes that Saturday night and Sunday morning would bring in the 11th-hour cut-flower customer, but they were doomed to disappointment. In the meantime the street dealer was doing his best to distribute the surplus, and the grower found in him a most industrious ally. Wherever a vacant doorway or a chink between buildings could be found, there he was with daffodils, carnations, lily of the valley and violets heaped high all around him, and it almost staggers one to think what would have been the fate of the product of that week of sunshine without the help of the fakir and the low-price store.

The wholesale shipping houses had the biggest Easter on record, for the out-of-town demand never wavered in its loyalty to the cut-flower, and the shipments up to Friday night were

enormous. Considering the quantity of material that came to the markets on Saturday morning, the dealers had good reason to be thankful even if carnations did have to be sold for one third of the prices of the previous week. As it was, there were some grievous disappointments.

As was anticipated, the lily supply fell far short of the demand. The full truth was not apparent, however, for stiff prices were charged all along the line, and everything possible was done to divert buyers from the lily to the azalea and other abundant material. Otherwise the lily supply would have come to an abrupt close long before it did. Plants of all kinds were of unusual excellence. The old-fashioned hat-topped azaleas were not much in evidence, the more pleasing, free-branched style being the rule. Two azaleas that gained great popularity were Jean Peters (Double Firefly) and Julius Roehrs. Most of the hydrangeas seen were of the Thos. Hogg variety. Of genistas there were comparatively few. Among the more uncommon things were gardenias, hawthorns, white and pink, and yellow callas.

Conditions favored delivery of goods without protection up to and including Sunday, which, although somewhat overcast, was an agreeable spring day, with neither cold, wind, nor dust to molest either flowers or Easter bonnets.

THE MARKET THIS WEEK.

After Easter the deluge. Never before has the market been called upon to sustain such an avalanche of flowers as has been poured in on top of the big hold-over Easter surplus. Prices for large quantities of anything are down to an unheard of level which the figures quoted in our prices current give little idea of. Lily of the valley, daffodils and tulips are perhaps the worst sufferers, but roses and carnations are badly hit in all grades and all varieties. Sweet peas, lilies and callas alone seem to be able to maintain their standing. Violets are on the decrease so rapidly that they are not likely to affect the market much longer. They are of poor quality as a rule and what they bring is all they are worth.

The Easter shipping **BUFFALO** trade in the cut flower line exceeded previous year. Double the amount of stock was handled but prices were lower, in many lines. Beauties arrived in quantities and all grades but little demand. Good demand was had on Richmond

which were of excellent quality. Killarney, Bridesmaid, Bride and Chateaux were plentiful. Good violets were in demand and cleaned up well while ordinary would not sell at any price and a good many were lost. Peas, lily of the valley, myosotis, swainsona, gardenias and white lilacs were had in good quality, also a river overflowing with daffodils and tulips which were decidedly on the quiet list and a good many carried over. At the beginning of the week carnations were not too plentiful but on Friday or Saturday they were abundant; a good portion of the shipments having been held for a few days they showed the effects after a few hours of exposure. Reports from all points indicate that a satisfactory Easter plant trade was had, thanks to weather man for mild days in which to make deliveries. During the week, beginning on Tuesday plant sales were very lively. The best demand was on lilies, hydrangeas, azaleas and rambler roses. Potted hyacinths sold well but other bulbous stock was very slow. For several days the cut flower trade was very much in the background and the retailers allowed the wholesalers to carry all the stock, buying only as required for immediate orders.

It was without doubt
CINCINNATI the greatest Easter
we ever had. Never

before was so many flowers handled in such a short space of time. With the exception of good roses and violets there was enough stock to meet the demand, and in general was in fine condition. The warm weather brought in bulbous stock with a vengeance, but there was no over-supply, as much of it would not last and had to be consigned to the dump. Store men were slow in placing their orders, for it looked as though the market would be badly over-stocked by Saturday, but the shipping trade was tremendous and at the last minute they had to hustle in order to get what they wanted. Plants were to be had in great variety and sold well. The market started off fine this week. Bulbous stock is nearly all gone but roses and carnations are working overtime and there is no immediate danger of a famine in the cut flower market.

Our Easter trade was
COLUMBUS a splendid one; much more stock, both plants and cut-stock, was disposed of than in any previous year. As regards prices, especially for plants, in most

cases they were somewhat less than last season; we expected such would be the case, for as the writer has several times mentioned the enormous amount of bulb stock here had to be disposed of at some price. Again, the intense heat of the last ten days jumped everything into saleable condition instantly; but our market certainly did wonders to consume such an amount of stock as it did. On the whole a very profitable business was done here. As to plants the stock in the city was the largest ever known here, and considering the good prices obtained for them, we have every reason to feel well satisfied. Azaleas never went so well, Hydrangeas and Crimson Ramblers sold fast, but it was the pots of Dutch hyacinths that sold in unlimited quantities. I should have mentioned above that lilies, being in short supply, held up well, and on the other hand bulb stock, especially narcissus, was in such enormous amounts that it had to be sold at any price.

Receipts and disbursements of flowers during Easter week both enormous, the former leading. The overturn of stock was immense, but incoming shipments were even larger, with the consequence of keeping prices below par. The warm weather, in addition to piling in the cut, affected its keeping qualities, especially in carnations and single violets, these being very soft and causing more kicks than all the rest put together. There was some soft cut lily stock left over, but all the good flowers found a ready market. The length of stem is not of so much importance in design work as for decorative purposes, and the shorts went readily in that connection, much better comparatively than as pot plants. Beauty roses sold fairly close, and were of good quality, practically all long stem. Brides and bridesmaids were good but far too plentiful. Richmonds and Liberties sold better than others, and were pretty well cleaned up. Some nice batches of Chatenay were received, and found ready takers. Killarney is still off color. There did not appear to be any salting either by the rose growers or carnation men, the sleepiness being entirely on account of the hot weather. Double violets were in good demand, but the singles were almost unsalable. Notwithstanding the enormous call for lily of the valley, much remained unsold. Paper whites and Roman hyacinths were fairly well cleaned up. Southern daffodils were a glut. All the good gardenias found ready sale. Sweet peas were in very good demand, especially pink. Cut lilac draggy. Plumosa and other greens sold

Continued on page 169.

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Cut Flowers of BEST QUALITY in season delivered promptly to any address.
Write, Telegraph or Telephone.
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Choice Valley
Fancy Bride and Bridesmaid

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FANCY VALLEY \$3.00 and \$4.00 per 100

Extra Choice **SWEET PEAS** \$1.00 and \$1.50 per 100

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	CHICAGO April 1	TWIN CITIES April 1	PHILA. March 25	BOSTON April 1
ROSES				
Am. Beauty, Fan. & Sp.	35.00 to 40.00	40.00 to 50.00	25.00 to 30.00	20.00 to 25.00
" Extra	20.00 to 25.00	25.00 to 35.00	..... to 20.00	15.00 to 20.00
" No. 1	12.00 to 15.00	15.00 to 20.00	15.00 to 20.00	10.00 to 12.00
" Lower grades, F. & S.	6.00 to 8.00	10.00 to 12.00	2.00 to 8.00	4.00 to 8.00
Bride, Maid, Golden Gate, F. & S.	4.00 to 6.00	6.00 to 8.00	10.00 to 12.00	6.00 to 8.00
" " Extra	3.00 to 4.00	5.00 to 6.00	8.00 to 10.00	4.00 to 5.00
" " No. 1 & lw. gr.	1.00 to 2.00	3.00 to 4.00	2.00 to 6.00	1.00 to 3.00
Liberty, Richmond, Fan. & Sp.	4.00 to 6.00	8.00 to 12.00	15.00 to 20.00	10.00 to 15.00
" Lower grades	2.00 to 3.00	6.00 to 8.00	3.00 to 10.00	2.00 to 8.00
Chatenay, Morgan, Fan. & Sp.	4.00 to 6.00	6.00 to 8.00	10.00 to 12.00	4.00 to 6.00
" Lower grades	2.00 to 3.00	5.00 to 6.00	2.00 to 8.00	1.00 to 3.00
Killarney, Wellesley, Fan. & Sp.	4.00 to 8.00	8.00 to 10.00	10.00 to 12.00	8.00 to 12.00
" Lower grades	2.00 to 3.00	6.00 to 8.00	2.00 to 8.00	1.00 to 5.00
CARNATIONS				
Fancy and Novelties .....	..... to 3.00	3.00 to 5.00	3.00 to 5.00	1.50 to 2.00
Ordinary	1.50 to 2.00	2.00 to 3.00	1.50 to 3.00	.75 to 1.00
MISCELLANEOUS				
Violets, Double .....	..... to 1.00	.75 to 1.00	.25 to .75	.25 to .50
" Single .....	.50 to .75	..... to .40	.25 to .40	.25 to .50
Cattleyas	50.00 to 75.00	..... to 75.00	75.00 to 100.00	35.00 to 50.00
Paper Wh. Nar., Rom. Hy., Freesia ..	1.00 to 2.00	..... to 3.00	2.00 to 3.00	1.50 to 2.00
Tulips, Daffodils	2.00 to 4.00	2.00 to 3.00	1.00 to 2.00	.50 to 1.00
Lilies	10.00 to 12.00	12.00 to 15.00	10.00 to 15.00	10.00 to 12.00
Lily of the Valley	2.00 to 4.00	3.00 to 4.00	2.00 to 4.00	1.00 to 4.00
Gardenias	50.00 to 60.00	..... to 10.00	10.00 to 20.00	..... to 25.00
Mignonette	4.00 to 8.00	..... to 2.00	2.00 to 3.00	1.00 to 2.00
Lilacs (100 bunches)	25.00 to 50.00	..... to 25.00	25.00 to 50.00	50.00 to 75.00
Adiantum .....	.75 to 1.00	..... to 1.00	1.00 to 1.00	1.00 to 1.50
Smilax	20.00 to 25.00	..... to 25.00	15.00 to 20.00	12.00 to 16.00
Asparagus Plumosus, strings	35.00 to 50.00 to 100.00	50.00 to 100.00 to 50.00
" " & Spreng. (100 bchs.) ..	35.00 to 50.00 to 50.00	50.00 to 100.00	35.00 to 50.00

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CUT FLOWER MARKET REPORTS.

Continued from page 467.

fairly well, but there was evidence here and there of holding until Thursday and then overdoing the call. A more gradual policy would have paid better. Daisies, both yellow and white, much overdone. Orchids scarce.

THE PLANT TRADE.

For both quantity and quality the Easter plant stock put on the market this year was fully equal to past seasons. Some curtailment was noticeable in a few items such as Crimson Ramblers and genistas. Azaleas were in ample supply and very well done as a rule. Lilies were many of them on the dwarf side but otherwise fine and well-flowered. The only striking novelty this year was the new variegated leaved Bougainvillea. It is doubtful if this will make a place outside of an ephemeral demand as a new thing. The green-leaved variety suits the buyers of Easter plants far better. Rhododendrons are getting more popular. Spireas were among the biggest sellers. In tulips the single white, pink, and yellow, sold best. Daffodils and hyacinths in pans are still popular. Deutzias were a little draggy. A new idea in displaying of cut flowers at Battles' was a square basket, deep like an umbrella stand, stained brown and ornamented on one side with pine cones. This looks very rich and unique. There is of course an inner vase for water.

Robert Kift now inclines to the belief that the lily trouble is the fault of the grower rather than the bulbs and that the best of bulbs will not do well unless intelligently grown.

In addition to the new variegated Bougainvillea mentioned there was another striking novelty on display at Battles'—the Rhododendron Pink Pearl—a pale blush with a large truss of well-opened flowers freely produced. This is really a beautiful thing and will be in demand. We are informed that Mr. Battles took the whole of Dreer's importation of this variety, one thousand plants.

The street men had everything their own way, bright sunshine and July temperature every day. There has never been such an Easter in history for the out-door people. The supplies of all kinds of stock seemed to be unlimited and yet by Saturday night everything that was salable found a home and much that was pretty rocky besides. It was indeed a jubilee for the small grower who depends much on his Easter trade to recoup for the dullness and expense of a long hard winter.

An enormous quantity of flowers was distributed for Easter.

NEW YORK The cut of roses, carnations, violets,—in fact almost everything in the cut flower line—was heavy and pretty much everything was disposed of with the usual exceptions. The prices realized were fair considering the large

over-supply. Beauties were cheaper than ever for a holiday, and averaged just about half the price of Easter, 1906. Special grade of Richmond exceeded Beauty in price and sold well. Jacques, always heretofore a good Easter seller had little support from the best trade and brought less than usual. Brummers were also cheap, the reasonable figures at which Brides, Bridesmaids and other teas were quoted made clearances possible except in shorter grades which were hard to move except at very low figures. Notwithstanding the heavy supply of carnations, all might have sold were it not that many were too ripe and went to sleep while awaiting late buyers. The warm weather affected their keeping qualities also. Never were there so many violets, and great was the variation in price, starting from the low level that prevailed during the week in which there was little, if any, demand for them, they finally cleared out at fairly good figures. Hundreds of thousands were disposed of through the street people as a result of the beautiful weather. Many of them, perhaps half the supply, were of inferior quality and were well-sold at any price; odorless and with dropping petals thousands were sold on the street which otherwise would have been thrown away and there were some even too poor to elicit an offer of purchase from the smallest street merchant. The grower who imagined it good business policy to keep his stock on the plant until it was no longer a violet will now perhaps see things in a different light. Orchids were in good demand but there were few in the market. Lily of the valley was plentiful and cheap and where it was held at a figure sales were almost out of the question. Predictions as to the scarcity of lilies were verified early in the day and little stock was unsold by evening. Prices ranged from 12 to 15 cents, the latter figure prevailing for good stock at the finish. Yellow stock—daffodils, tulips, jonquils, etc. was a drag at prices that would not begin to pay for the bulbs. Much of it was still unsold when Monday came. So also was mignonne, stocks, and a miscellaneous assortment of such odds and ends as daisies, smilax, etc. Sweet peas—white particularly—cleared well but not at high figures. Altogether, the great floral festival brought more worry than elation to the hard worked wholesale man.

THE PLANT TRADE.

The plant trade did not differ materially from that of recent years. There may have been a few more camellias used and a few less genistas, a few more baskets of one style and a few less of another, but the favorites of a year ago are still favorites and nothing sensational was in evidence. Pussy willow baskets in many forms were generally popular. Ribbon was used in less quantities and in many instances was replaced by chiffon as a decorative adjunct. Retailers had been

apprehensive that the Wall Street flurry would hurt their Easter trade. They were agreeably disappointed and had the best business of their lives. Some complaint is heard as to lilies, which were not only scarce but were of unsatisfactory quality, showing evidences of excessive forcing. As a rule, large azaleas and large specimen plants generally were not wanted.

TWIN CITIES

Another Easter has gone and the trade in general are all feeling good over the fine business they had. About everything in plants sold well and at good price. It was noticeable that the demand for high-class stock was much better this year than for some time past. Lilies sold well; in some places not one was left, while in others the stock was well picked over and only a few inferiors left on hand. Azaleas sold better than ever, the average price being from \$2.00 to \$3.00 each. Specimen plants brought as high as \$20.00 and \$25.00, but the sale on that size was not heavy. Other plants such as spiraeas, deutzias and hydrangeas sold well, the average being \$1.00 and \$1.50 for spiraeas and deutzias, and hydrangeas from \$1.00 to \$5.00 according to size. Cut flowers moved rapidly on Saturday and fair prices were obtained.

WASHINGTON

Notwithstanding the torrid wave that swept over Washington during the past week and sudden transition from winter to mid-summer, causing injury to plants and cut flowers, the Easter season was profitable to the trade generally. The stores were most attractive with banks of flowers, both inside and out, and ranging from the most magnificent specimens of bougainvilleas to the tiny Baby Rambler roses. The best plants offered were azaleas, hydrangeas, and rhododendrons, which sold readily at satisfactory prices. The Easter lily crop was a general failure, the preponderance of plants offered being short in stature and of poor quality as compared with former years. Growers are complaining of the diseased condition in which lily bulbs were received, and further state that many were not true to name. Prices were in line with those of former years, and there was a ready demand with both grower and retailer.

The old adage, "it's the little things that count," was fully verified this Easter season. While all flowers sold readily and well, for the smaller and cheaper plants, it was a record breaker. None were left to tell the tale.

Owing to the absence from the city of many of the wealthy class handsome specimen plants did not find as ready sale as on previous seasons. Fortunately for the grower, as well as the retailer, the sudden drop in temperature did not occur until Sunday morning, the preceding days being ideally beautiful, indeed, rather too warm for comfort.

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Roses					
Am. Beauty, fan and sp.	15.00 to 30.00	12.00 to 20.00	Carnations, Ordinary	2.00 to 3.00	2.00 to 2.50
" extra	8.00 to 15.00	8.00 to 12.00	Violets, double .....	.10 to .75	.20 to .50
" No. 1	6.00 to 8.00	5.00 to 8.00	" single	" to	" to
" Lower grades	1.00 to 4.00	1.00 to 3.00	Cattleyas	30.00 to 40.00	25.00 to 40.00
Bride, 'Maid, Golden Gate, fan & sp	8.00 to 12.00	5.00 to 6.00	Pap. Wh. Nar., Rom. Hy., Freesia	.50 to 1.00	.50 to 1.00
" Extra	4.00 to 6.00	3.00 to 5.00	Tulips, Daffodils .....	.50 to 2.00	.50 to 2.00
" No. 1 & lw. gr.	2.00 to 4.00	1.50 to 3.00	Lilies	10.00 to 15.00	10.00 to 12.00
Liberty, Richmond, fancy & special	15.00 to 30.00	12.00 to 20.00	Lily of the Valley	1.50 to 3.00	1.50 to 3.00
" lower grades ..	2.00 to 10.00	2.00 to 8.00	Gardenias	" to	" to
Chatenay, Morgan, fancy and spec.	6.00 to 10.00	5.00 to 6.00	Mignonette	1.00 to 3.00	1.00 to 3.00
" lower grades ..	2.00 to 4.00	1.50 to 3.00	Lilacs (too bunches)	25.00 to 75.00	25.00 to 50.00
Killarney, Wellesley, fan. and spec.	10.00 to 12.00	5.00 to 8.00	Adiantum .....	.75 to 1.25	.75 to 1.00
" lower grades ..	2.00 to 6.00	1.50 to 3.00	Smilax	15.00 to 20.00	15.00 to 20.00
Carnations, Fancy and Novelties ..	4.00 to 6.00	3.00 to 4.00	Asparagus Plumosus, strings...	20.00 to 30.00	20.00 to 35.00
			" & Sprea. (too bchs.)	15.00 to 25.00	15.00 to 30.00

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Extra.....	30.00 to 40.00	20.00 to 30.00	20.00 to 30.00	15.00 to 20.00
No. 1.....	20.00 to 25.00	12.00 to 20.00	10.00 to 20.00	8.00 to 10.00
Lower grades.....	8.00 to 10.00	6.00 to 8.00	5.00 to 10.00	4.00 to 5.00
Bride, 'Maid, Golden Gate, F. & S.	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	10.00 to 12.00
Extra.....	6.00 to 8.00	4.00 to 6.00	6.00 to 8.00	4.00 to 6.00
No. 1 & lw. gr.	4.00 to 5.00	2.00 to 4.00	4.00 to 6.00	4.00 to 6.00
Liberty, Richmond, Fan, & Sp....	8.00 to 10.00	8.00 to 10.00	10.00 to 15.00	10.00 to 15.00
Lower grades.....	4.00 to 6.00	4.00 to 6.00	4.00 to 10.00	4.00 to 8.00
Chatenay, Morgan, Fan, & Sp....	8.00 to 10.00	8.00 to 10.00	10.00 to 15.00	8.00 to 10.00
Lower grades.....	4.00 to 6.00	5.00 to 7.00	4.00 to 10.00	4.00 to 6.00
Killarney, Wellesley, Fan, & Sp..	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	8.00 to 12.00
Lower grades.....	4.00 to 6.00	5.00 to 7.00	4.00 to 6.00	4.00 to 6.00
CARNATIONS				
Fancy and Novelties.....	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00
Ordinary.....	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	1.00 to 1.50
MISCELLANEOUS				
Violets, Double.....	.35 to .50	.75 to 1.00	.50 to .75	.25 to .75
Single.....	.35 to .50	.75 to 1.00	.25 to .50 to
Cattleyas.....	50.00 to	50.00 to to to
Paper Wh. Nar., Rom. Hy., Freesia	3.00 to 3.00	3.00 to 4.00	2.00 to 3.00	1.00 to 3.00
Tulips, Daffodils.....	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00
Lilies.....	10.00 to 12.00	12.50 to 15.00	12.00 to 15.00	8.00 to 12.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
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N. Y. Cut Flower Co., 55-57 W. 26th St., New York. J. A. Millang, Mgr.
Carnation Windsor Blooms.
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Harlowarden Greenhouses, Greenport, N. Y.
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Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by glass.

Send for list of rooted cuttings of new and leading commercial varieties of carnations and chrysanthemums. Wm. Swayne, Kennett Square, Pa.

CEDAR BEAN POLES

1 1-2 inch butt, 5 ft. to 7 ft. long, \$10.00 per 1000; 2 inch butt, 8 ft. long, \$15.00 per 1000; 2 1-2 inch butt, 10 to 12 ft. long, \$22.50 per 1000. H. R. Akers, Chatsworth, N. J.

CHRYSANTHEMUMS

Eggeling Floral Co., 1653 S. Grand Ave., St. Louis, Mo.
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Charles H. Totty, Madison, N. J.
For page see List of Advertisers.

Harlowarden Greenhouses, Greenport, New York.
For page see List of Advertisers.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Evergreens of large size from 6 to 16 feet in variety frequently transplanted. Ask for list. Samuel C. Moon, Morrisville, Pa.

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CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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Folding cut flower boxes, the best made.
Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

Giant Hybrids transpl. ready for 2-in. and 3-in., \$3.50 100; \$30.00 1000. Plants grown of seed taken from the cream of my well known strain. Christ. Winterich, Cyclamen Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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J. K. Alexander, E. Bridgewater, Mass.
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Harlowarden Greenhouses, Greenport, New York.
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W. C. Ward, Adams St., Quincy, Mass.
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Henry A. Dreer, 714 Chestnut St., Phila.

Dahlias, fine, strong bulbs. Also cannas and gladioli. Write for price list. O. B. Stevens, Sheepshead, Iowa.

DAHLIAS—Geo. H. Walker, write for catalogue of Dahlias, Roses, Phlox and Shrubs, North Dighton, Mass.

THE DAHLIA MANUAL.

An up-to-date work on dahlias and dahlia culture, covering the whole field. Illustrated. Price, 35c. W. W. WILMORE, Box 382, Denver, Colo.

I am again ready to handle your business. Only the cream of varieties handled. Standards and novelties, including Mrs. Winters, Mme. Daël, Navajo, Lonsdale, Dainty, Kriemhilde, etc. Catalogue of dahlias, hollyhocks, peonies and hardy plants now ready. W. W. WILMORE, Box 382, Denver Colo.

DAISIES

Shasta Daisies. Burbank's named varieties, \$2.50 per 100, express prepaid. Leedham Bulb Co., Santa Cruz, Cal.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Jullus Roehrs, Rutherford, N. J.
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DRACAENAS

Peter Henderson & Co.
35-37 Cortlandt St., New York.
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Dracaena indivisa, 5 in., \$2.00 per doz.
W. C. Rockwell, Bradford, Pa.

Dracaena terminalis from bench, fine.
\$25.00 100. Carl Hagenburger, West Mentor, Ohio.

ECHEVERIAS

Echeverias, 15 to 20 cm. in cir., \$3.00 per 100; \$22.00 per 1000. Carriage paid. J. A. McDowell, Ap. 167, City of Mexico.

FERNS

A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitmani.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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FERTILIZERS

A sample 100 lb. bag of BLACHFORD'S CELEBRATED FERTILIZER, PLANT GROWER AND LAND RENOVATOR only \$2.75. This best grade Fertilizer is composed solely of pure Rose Growers' Bone Meal, Nitrate of Soda, Peruvian Guano, Sulphate of Ammonia, Sulphate of Potash and Gypsum in the correct proportions and in the most soluble condition. For benches and potting plants, for roses, carnations, lilies, mums, etc., many florists say it has never been surpassed. Particulars for florist and truck gardeners sent FREE on application.

BLACHFORD'S CALF MEAL FACTORY, Waukegan, Ill.
Established at Leicester, England in 1800.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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J. Stern & Co., 125 N. 10th St., Phila.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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Alex. McConnell, New York.

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Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.

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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.

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Thos. Young, Jr., 41 W. 28th St., N. Y.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.

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Samuel Murray, 1017 Broadway, Kansas City, Mo.

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Young & Nugent, 42 W. 28th St., N. Y.
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W. H. Donohoe, 2 W. 29th St., New York.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.

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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.

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William J. Smyth, Michigan Ave and 31st St., Chicago.

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Wm. H. Rock Flower Co., Kansas City, Mo.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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Syracuse Red Pots.
Syracuse Pottery Co., Syracuse, N. Y.

Say! Send to Feustel, for prices on Red flower pots. Geo. E. Feustel, Fairport, Ia.

GALAX

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

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Caldwell the Woodsman Decorating Co., Evergreen, Ala.

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Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

GERANIUMS

R. Vincent, Jr., & Son, White Marsh, Md.
J. E. Felthousen, Schenectady, N. Y.

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Wm. S. Herzog.

Morris Plains, N. J.

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C. Elsele.

11th and Roy Sts., Philadelphia, Pa.

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Geraniums. 10 varieties 2 1/4 in., \$2.50 per 100. Mme. Sallerol rooted cuttings, \$1.00; 2-in., \$2.00 per 100. Wm. Doel, Pascoag, R. I.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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B. Hammond Tracy, Cedar Acres, Wenham, Mass.

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Gladioli, named varieties. Write for list. E. E. Stewart, Rives Junction, Mich.

Gladiolus Augusta, 1st size, \$12.00; 2nd size, \$8.00 1000. Cash. Rowehl & Granz, Hicksville, N. Y.

Augusta White, small sizes. \$2.00 to \$3.50 per 1000. John Fay Kennell, Chili, N. Y.

GLADIOLI. Groff's Hybrids, Gold Medal and Silver Trophy Strain, Crawford Strain. Farquhar Hybrid seedlings. JOHN H. UMPLEBY, Lake View, N. Y.

GLASS

Boston Plate & Window Glass Co., Boston.
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Peerless Glass Repair Clamp; you need them—100 for \$1.00. A. Klokner, Wauwatosa, Wis.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLOXINIAS

Jos. Talley & Son, Wellesley, Mass.

In writing to Advertisers kindly mention Horticulture

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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Kling Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St.,
Chicago, Ill.
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S. Jacobs & Sons, 1365-79 Flushing Ave.,
Brooklyn, N. Y.

Metropolitan Material Co., 1398-1408 Metro-
politan Ave., Brooklyn, N. Y.
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Weathered Co., Box 789, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GREENHOUSE BRACKETS

Buxton & Allard, Nashua, N. H.
Economy Greenhouse Bracket.
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HAMMOND'S COPPER SOLUTION
Benj. Hammond, Fishkill-on-Hudson, N. Y.

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston, Mass.
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The Kervan Co.,
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Michigan Cut Flower Co., 38 & 40 Broad-
way, Detroit, Mich.
Fancy Ferns.
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E. A. Beaven, Evergreen, Ala.
Fadeless Sheet Moss.
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HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Funkia variegata clumps, \$6.00 per 100.
H. Pladeck, Elmhurst, N. Y.

Yucca Filamentosa, No. 1, 4c.; Iris Sibir-
ica, 3c. Ellsworth Brown & Co., Sea-
brook, N. H.

Our Catalogue of Hardy Plants are classi-
fied according to the height they grow.
Mailed free on request. John R. Clarke &
Co., Bellevue Greenhouses, 1700 Centre St.,
West Roxbury, Mass.

Hemerocallis Thunbergii, 12 inch clumps,
\$20 per 100.

Yucca filamentosa, strong plants with 50
leaves, \$20 per 100.

Iibiscus moscheutos, 3 yrs., \$4 per 100.
Yucca gloriosa, \$10 per 100. Ask for
trade list of hardy nursery stock. Samuel
C. Moon, Morrisville, Pa.

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Kroeschell Bros., 35 Erie St., Chicago.
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Johnston Heating Co., 1133 Br'dway, N. Y.
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HELIOTROPES.

Heliotropes (dark), good stock, strong and
well rooted, R. C., 60c. 100; \$5.00 per 1000.
Cash. J. P. Cannata, Mt. Freedom, N. J.

HOLLYHOCKS

Hollyhocks. Large field-grown plants,
\$3.00 per 100. Double in separate colors
of red, white, pink, yellow and maroon;
also the Allegheny strain. Send for cata-
logue of hollyhocks, dahlias and hardy
plants. W. W. WILMORE, Box 382, Den-
ver, Colo.

HONEYSUCKLES.

Golden Honeysuckles, 7c. Ellsworth
Brown & Co., Seabrook, N. H.

HORICUM

Hammond's P. & S. S. Works, Fishkill-on-
Hudson, N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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HOT WATER CIRCULATOR

Holly-Castle Co., 170 Summer St., Boston.
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HYDRANGEAS.

Hydrangea paniculata grandiflora, 3 ft.,
Sc. Ellsworth Brown & Co., Seabrook,
N. H.

INSECTICIDES.

Nicotinic kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Louisville, Ky.

KENTIAS

Godfrey Aschmann, 1012 Ontario St., Phila.

A. Leuthy & Co., Roslindale, Mass.
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LAWN AND CEMETERY VASES

Kramer Bros. Foundry Co., Dayton,
Ohio.
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LAWN MOWER

Clipper Lawn Mower Co., Dixon, Ill.
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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis,
Mo.

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J. Breitmeyer's Sons, Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.

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Gude Bros. Co., 1214 F St.,
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Eyres, 11 N. Pearl St., Albany, N. Y.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd.,
St. Louis, Mo.

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P. J. Hauswirth (temporary address) 13
Congress St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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W. H. Donohoe, 2 W. 29th St., New York.
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Atlanta Floral Co., Atlanta, Ga.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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LILY OF THE VALLEY

Wm. Elliott & Sons, 201 Fulton St., N. Y.
Lily of the Valley Clumps.

John Scheepers & Co., 4 and 6 Old Slip,
New York.

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LILY BULBS

Lilium superbum, extra large bulbs, 25c.
each; \$1.50 per 10; \$8.00 per 100. L. B.
Williams, Nottingham, N. H.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MOON VINES

Godfrey Aschmann, 1012 Ontario St., Phila.
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NIKOTEE APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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John Scheepers & Co.
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Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.

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The Conard & Jones Co., West Grove, Pa.
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F. W. Kelsey, 150 Broadway, New York.
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Elizabeth Nursery Co., Elizabeth, N. J.
The F. E. Conine Nursery Co., Stratford,
Conn.

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The Wm. H. Moon Co., Morrisville, Pa.
American Arborvitae.

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The New England Nurseries Co., Inc., Bed-
ford, Mass.

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Cut leaf Staghorn sumach, large stock,
6c. to 15c.; Kudzu Vines, 15c. Edw. Teas,
Joplin, Mo.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.

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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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A. Held, 11-19 William St., New York.
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Seibrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.

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Jos. A. Manda, 191 Valley Road, W.
Orange, N. J.

Orchids, Orchid Baskets, Peat.
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Laelia anceps, \$4.00 per doz.; \$25.00 per
100. Carriage paid. J. A. McDowell, Ap.
167, City of Mexico.

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PALMS

A. Leuthy & Co., Roslindale, Mass.
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Siebrecht & Son, Rose Hill Nurseries,
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Peter Henderson & Co.
35-37 Cortlandt St., New York.
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John Scheepers & Co.
4 and 6 Old Slip, New York.
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PANSY PLANTS.

Pansy plants; strong transplanted, \$10.00
per 1000. F. A. Baller, Bloomington, Ill.

Wm. Dobberty, 595 Joseph Ave., Roches-
ter, N. Y.

Giant Pansy Plants.
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PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Peonies, fine assortment, \$10.00 per 100.
F. A. Baller, Bloomington, Ill.

Peonies, 1200 sorts. Greatest list any-
where. C. Betscher, Canal Dover, Ohio.

Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfield, West Point,
Neb.

Peonies. 200 strong undivided five year
old clumps; pink sorts only. \$25 per 100.
Ask for trade list of ornamental nursery
stock. Samuel C. Moon, Morrisville, Pa.

PETUNIAS

The Yates Floral Co., Canajoharie, N. Y.
Scranton Florists' Supply Co., Scranton,
Penn.

Double Petunia the Queen.
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C. Eisele.
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Howard's Star and Rosy Morn.
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Wm. S. Herzog.

Morris Plains, N. J.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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PRIVET

California privet, all sizes. J. T. Lov-
ett, Little Silver, N. J.

PRUNING SHEARS

Rhodes Mfg. Co., Grand Rapids, Mich.

RHODODENDRONS

John Waterer & Sons, Ltd., American
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Rose Aurora.

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Robert Scott & Son, Sharon Hill,
Del. Co., Pa.
Grafted Roses.

The Conard & Jones Co., West Grove, Pa.
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Bay State Nurseries, No. Abington, Mass.
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A. N. Pierson, Cromwell, Conn.
Grafted Roses, Own-Root Beauties.
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Rosedale Nurseries, Tarrytown, N. Y.
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Montrose Greenhouses, Montrose, Mass.
Grafted Bride and Bridesmaid Roses.
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Eastern Nurseries, Jamaica Plain, Mass.
Rose Frau Karl Druschki.

R. T. McGorum, Natick, Mass.
Grafted Brides and 'Maids.

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Low-budded roses, No. 1, \$95.00; No.
1-1-2, \$65.00 1000. H. T. Jones, Elizabeth,
N. J.

American Beauties, 2 1-2 in., \$8.00 per
100; \$75.00 per 1000. Chas. H. Totty, Madis-
on, N. J.

Own root roses, 2 years. C. Ramblers.
\$7.00; Dorothy Perkins, P. W. and Y. Ram-
blers, \$5.00; H. P. roses and Baby Ram-
blers, \$8.00 per 100. Gilbert Costich, Roch-
ester, N. Y.

Baby Rambler roses, fine dormant stock,
one year, \$12 per 100, 2 1-4 in. pot plants,
extra well rooted, \$4 per 100, \$30 per M.
Orders booked for delivery now or any
time up to late spring. Samples free.
Brown Brothers Company, Rochester, N. Y.

The beautiful new pink rose, MISS
KATE MOULTON is the queen of all
pink roses. It's a winner and you should
grow it. Price \$30.00 100; 500 \$125.00;
1000 \$200.00; 5000 and upwards \$175 per
1000. Minneapolis Floral Co., Minneapolis,
Minn.

SALVIAS

Perennial Gardens Co., Toledo, O.
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Salvia Zurich.

C. Eisele.

11th and Roy Sts., Philadelphia, Pa.
Salvia Bonfire.

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SEEDS

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Joseph Breck & Sons

51 and 52 N. Market St., Boston, Mass.

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W. Atlee Burpee & Co., Philadelphia.
"New Creations" in Bush Limas.

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J. M. Thorburn & Co., 33 Barclay St., N. Y.

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Henry A. Dreer, Philadelphia.

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A. T. Boddington, 342 W. 14th St., N. Y.

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H. F. Michell Co., 1017 Market St., Phila.

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Aster Seed.

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12 Stormgade, Copenhagen, Denmark.

Cauliflower and Cabbage Seed.

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H. E. George, 929 Morton Ave., Pasadena,
California.

Delphinium Cardinale Seed.

ASTER SEEDS, home grown. Bargain

list ready. H. W. Koerner, Sta. B, Mil-
waukee, Wis.

I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.

Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and
Tree Seeds.

Surplus Garden Peas—50 bu. Alaska,
\$3.25 per bu.; 40 bu. First and Best, \$2.00
per bu. New crop northern Michigan
grown; none better. W. F. Allen, Salis-
bury, Md.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Mar-
ket St., Boston.

Pulverized Sheep Manure.

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SHEET MOSS

E. A. Beaven, Evergreen, Ala.

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SHRUBS.

Japanese Wistarias, 8c.; Berberis Thun-
bergii, 12 to 18 in., 3 1-2c.; Hibiscus, C.
Eye and Pink, 3c.; Norway Spruce, 1 1-2
to 2 1-2 ft., 8c. Ellsworth Brown & Co.,
Scabrook, N. H.

1000 Large Shrubs 5 to 8 ft. assorted for
\$150. Ask for trade list of ornamental nur-
sery stock. Samuel C. Moon, Morrisville,
Pa.

SMALL FRUIT PLANTS

Dewberry plants, Lucretia and Austin,
\$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00
per 1000, \$25.00 per 5000; Turner red rasp-
berry plants, \$6.00 per 1000, \$25.00 per
5000. W. F. Allen, Salisbury, Md.

SMILAX

Smilax seedlings, fall-sown, \$3.00 per
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Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

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Spiraea, extra fine clumps in leading va-
riety. F. W. O. Schmitz, Prince Bay, N. Y.

Spiraea, Van Houttei, 2 to 3 ft., 6c.; 18
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Seabrook, N. H.

STEAM TRAP

E. Hippard, Youngstown, O.

STRAWBERRY PLANTS

Strawberry plants, 90 best varieties,
stock unexcelled. Ask for prices on what
you want. W. F. Allen, Salisbury, Md.

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Fire and Frost Alarm. Heat regulators.
Brown Alarm Co., Denver, Colo.

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Wm. Slim, Cliftondale, Mass.

Comet Tomato.

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500 to 1000 2 1-2 in. Pot Plants, Tomato.
"The Comet." Strong and ready for shift.
\$3.50 per 100. Cohanzie Carnation Green-
houses, New London, Conn.

Small seed-bed to large transplanted
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erate prices. Let us send you price lists.
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50,000 large 4-year old Barrs Mammoth
Asparagus roots, \$6.00 per 1000; \$25.00 per
5000. (500 will fill a sugar barrel.) Ad-
dress W. F. Allen, Salisbury, Md.

VENTILATING APPARATUS

Lord & Burnham Co., 1133 Broadway, N. Y.

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Pierson U-Bar Co., 1 Madison Sq., N. Y.

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The Advance Co., Richmond, Ind.

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J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

The Chicago Lifter.

In writing to Advertisers kindly mention Horticulture

VINCAS

10,000 vincas 2 1/2 in., fine, \$2.50 per 100; \$20.00 per 1000. R. Cuttings same, \$1.00 per 100; \$7.00 per 1000. Cash, please. Benj. Connell, West Grove, Pa.

VIOLETS

H. R. Carlton, Willoughby, O.

Violet, Gov. Herrick.

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Princess of Wales Violets. Rooted cuttings, 75c. 100; 2-in. pot plants, \$2.50 Wm. Doel, Pascoag, R. I.

WILD SMILAX

E. A. Beaven, Evergreen, Ala.

Southern Smilax.

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Caldwell the Woodsman Decorating Co., Evergreen, Ala.

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WIREWORLD

Reed & Keller, 122 W. 25th St., N. Y.

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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Heilscher's Wire Works, 38 40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

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The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

WHOLESALE FLORISTS**Boston**

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Michigan Cut Flower Exchange, 38 & 40 Broadway.

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ENGLISH POT-GROWN GRAPE VINES: TRAINED FRUIT TREES.

Bobbink & Atkins, Rutherford, N. J.

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FLOWER AND VEGETABLE SEEDS.

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Yokohama Nursery Co., 31 Barclay St., New York.

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Sago Palm Stems, Begonias, Johnson Seed Co., 217 Market St., Phila.

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SEASONABLE STOCK: BEDDING STOCK.

R. Vincent, Jr., & Son, White Marsh, Md.

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SHRUBS, ROSES AND HERBACEOUS PERENNIALS.

New England Nurseries, Bedford, Mass.

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WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

HELP WANTED

WANTED—Man for general greenhouse work on place of 12,000 feet. Must be good grower of carnations, 'mums, violets and general stock. Married man preferred. W. W., care HORTICULTURE, Boston.

SITUATIONS WANTED

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—Gardener or superintendent with 13 years' experience in caring for and improving gentleman's place. Fruit, flowers and vegetables hot and cold, graper, greenhouse, etc. Married. Reference from last place. E. Sanders, Cemetery Ave., Albany, N. Y.

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WANTED—A partner for a good wholesale and retail florist business near Boston. Must furnish some capital and be of good character. Address L. G., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—A partner of good character, with small capital, to invest in new insect exterminator at half interest. Address Partner, care HORTICULTURE, 11 Hamilton Place, Boston.

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4 1/2-inch Scotti and Pteronil Ferns, for Young Rose and Carnation Stock. What have you? Cottage Greenhouses, Bushnell, Ill.

WANTED—To buy or exchange for any other stock, old plants of Aspidistras, both green and variegated. Siebrecht & Son, 425 Fifth Ave., New York City.

FOR SALE**FLORISTS' WAGONS FOR SALE**

Three florists' open wagons, three florists' top wagons and three sets of harnesses. Can be seen at 1 West 28 St., New York.

EDWARD HIGGINS.**FOR SALE—Greenhouse Pipe**

4-in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

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BARGAINS: Two five-foot horizontal tubular boilers couplets; good condition; were running at ninety pounds. Address G. S. Ramsburg, Somersworth, N. H.

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Dickson, Tenn.—Frank Curry, one house.

Pierre, S. D.—Enoe & Barney, one house, 30x90.

De Pere, Wis.—A. Van Gemert, one house, 20x100.

Waukesha, Wis.—Schenck & Bliese Co., one house, 42x150.

Columbia City, Ind.—Wagoner Floral Co., one house, 14x100; one house, 42x150.

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Southport, Ct.—E. J. Taylor, one house.

Clarks Mills, Me.—F. H. Smith, extensions.

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Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

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German and American

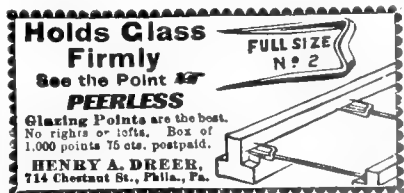
261 to 287 A St., BOSTON 20-22 Canal St.

GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.

117 E. Blackhawk St., CHICAGO

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This is to give notice that the business which I have heretofore conducted under the trade name of "HOLLY-CASTLE COMPANY", I shall henceforth until further notice carry on solely in my own name, "William W. Castle". E. P. Holly, formerly in my employ, will no longer represent me. All debts due me individually or as "Holly-Castle Company" should be settled direct with the undersigned and all contracts should be signed by me.

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STANDARD FLOWER POTS.

Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 2 1/2 " " " 5.25	60 8 " " " 3.00
1500 3 " " " 6.00	
1000 3 " " " 5.00	HAND MADE
800 3 1/2 " " " 5.80	48 9 in. pots in crate \$3.60
500 4 " " " 4.50	48 10 " " " 4.80
320 5 " " " 4.51	24 11 " " " 3.60
144 6 " " " 3.16	24 12 " " " 4.80
	12 14 " " " 4.80
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Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N.Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower . . POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money

W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.



USE THE BEST.
Economy Greenhouse Brackets
are used by leading growers everywhere. Send for price list and descriptive circular.
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on your next order.

Plant Bed Cloth protects from frost, insects, etc., and still allows free circulation of air.

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HAMMOND'S SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.

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**All this "Hot Air"
About Boilers**

and the big sums of money saved if you use them, is interesting reading, but we don't ask you to take only our say-so on our boilers. All we want is a chance to show you what they have done for others, as a proof of what they will do for you. Our boilers are greenhouse boilers, not simply boilers — send for new catalog.

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Manufacturers of Heating and Ventilating Apparatus.
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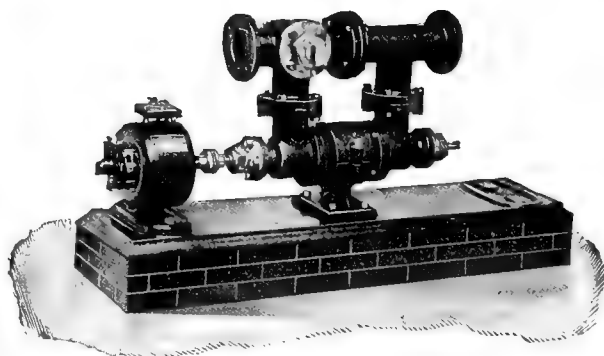
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DAYTON, OHIO.



Largest Vase Manufacturers in the U. S.
Write to Department 3 for Catalog and
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A Friend to Greenhouse Men



THE ELECTRIC CIRCULATOR

It **MAKES** the Boiler Work **IT WORKS** It **MAKES** the Water Circulate

It has been installed in many large establishments and is giving full satisfaction. Write to Robert Simpson, Clifton, N. J.; Julius Roehrs Co., Rutherford, N. J.; J. N. May, Summit, N. J.; F. R. Pier-son Co. Scarborough, N. Y.; Joseph Fuller, Leomin-ster, Mass.; Perennial Gardens Co., Toledo, O.; or Christ, Winterich, Defiance, O. The Circulator is working in each of these establishments.

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Steel Plate Boiler**

built especially for hot water greenhouse heating, also piping and fitting according to most approved methods, in economical manner and with satisfaction guaranteed. Write to us for particulars and testimonials from those who have used this boiler during the past season.

The Cast Iron Boiler for Greenhouse Heating is Doomed

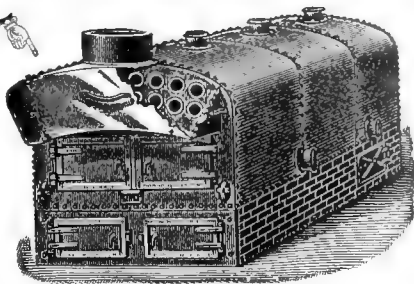
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THE KROESCHELL BOILER

is the only perfect Hot Water Boiler. Made in 15 sizes, heating 6000 to 50,000 sq. ft. glass to 60° at 15° below zero.

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STEEL RETURN TUBULAR Steam BOILERS Water



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JOHNSTON HEATING CO., New York City.
Gentlemen:—The internally fired steel boilers which you installed last fall are giving us great satisfaction. They heat very quickly and are very economical. We are exceedingly well pleased with them and they have more than met our expectations.—Very truly yours,
F. R. PIERSON Co.

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1133 Broadway, NEW YORK CITY
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Lawn
Mower
Co. DIXON,
ILL.**



The Mower
that will kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.

The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-inch Mower \$5; No. 2—15-inch Mower \$6; No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8. Send draft money-order or registered letter. In writing advertisers, mention Horticulture

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82 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

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Everything in New and Second Hand
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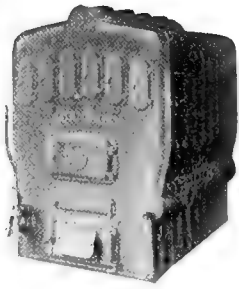


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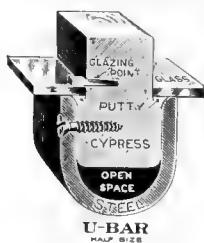
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HORTICULTURE

Vol. V.

APRIL 13, 1907

No. 15



HYBRID RHODODENDRON MARY WEED.

PRINCESS MAY ELIZABETH X VICTORIA LUCY

*Devoted to the
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LANDSCAPE GARDENER,
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The above grafted from 2 1-4 inch pots \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1-2 inch pots, re-potted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

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" " 3 to 4 ft.	8.00
<i>Cornus stolonifera</i> , 2 to 3 ft.	8.00
" " 3 to 4 ft.	10.00
<i>Privet Iloba</i> , 2 to 2 1/2 ft.	6.00
" " 2 1/2 to 3 ft.	8.00
<i>Rosa blanda</i> , 2 to 3 ft.	10.00

	Per 100
<i>Rosa lucida alba</i> , 18 to 24 in.	\$12.00
<i>Rosa setigera</i> , 3 to 4 ft.	8.00
" " 4 to 5 ft.	9.00
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" " 3 to 4 ft.	8.00
<i>Spiraea Douglassi</i> , 2 to 3 ft.	6.00
" " 3 to 4 ft.	8.00
<i>Symphoricarpos vulgaris</i> , 2 to 3 ft.	5.00
" " 3 to 4 ft.	7.00
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<i>Yucca filamentosa</i> , 3 years	8.00

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Austria, 6 ft. *Beaute Poltevine*, 4 ft. *Black Beauty*, 5 ft. *Florence Vaughan*, 3 1/2 ft.
Italia, 3 ft. *Mad. Crozy*, 3 1/2 ft. *Pink Beauty*, 4 ft. *Pres. McKinley*, 3 ft.
Queen Charlotte, 4 ft. *Robusta*, 6 ft.

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The F. E. CONINE NURSERY CO.

STRATFORD, CONN.

12 Years Established

HAVE FOR SALE

75 *Hortense Hydrangeas*, (blue) 8 years old in Half Barrels or without, \$20, \$25, and \$30 per pair. As fine as in the market.

35 000 *Roses*, in the finest Everblooming and Hybrid varieties. Our roses are well known everywhere.

3,000 *Tree Roses*, in the leading Everblooming and Hybrid varieties. No better in this or any other country. \$15 per dozen.

500 *Dorothy Perkins*, 4 years old, \$15 per dozen while they last.

Austrian and Scotch Pines, 4 to 9 feet, with balls that carry. You can't beat these.

All other *Evergreens*, all sizes with balls that carry.

All other kinds of *Nursery Stock* equally good. All sizes.

Retail Only with few exceptions.

1,000 *Crimson Rambler Roses*, 4 years old, 6 to 10 feet, \$15 to \$18 per dozen. No better anywhere.

John Waterer & Sons, Ltd.

AMERICAN NURSERY

BAGSHOT, ENGLAND

have the finest stock of recognized *Hardy Rhododendrons*, *Azaleas*, *Andromedas*, high class *Evergreens* and specimen *Conifers*. Ask for special list of plants grown for the American trade.

John Waterer & Sons are the great exhibitors of *Rhododendrons* in London.

Artistic Interior Arrangement of Conservatory with Tropical Plants

The subject which your California subscriber has asked someone to write about is a good one, and very little has been written upon it. It would be much easier to handle this topic if a plan of a large tropical conservatory was given, because there are so many shapes and sizes of greenhouses built now. Therefore, the first thing we have to consider is the sort of greenhouses or conservatories that are most suitable to give the best and most pleasing effects. No doubt, the larger the house the more imposing effects can be produced. Nevertheless, in houses of moderate size really pretty arrangements can be produced if a person has a little artistic ability. As I said in *HORTICULTURE* a short time ago about arranging groups at our exhibitions that we lack originality, we have the same fault in the arrangement of our greenhouses. Everywhere one goes the arrangement is almost always the same.

The plants in a large conservatory or greenhouse are its furnishing just as much as furniture, pictures, and other ornaments are the furnishing of a dwelling house. The tasteful housefurnisher or decorator places his pictures, etc., in the places where they show to best advantage. The same rule may be applied to the plants in a large greenhouse.

The great trouble with most of our greenhouses is that we have too many plants in them; with such a condition we are not able to arrange them artistically and we do not get the comfort or enjoyment we ought to get out of them.

A great part of the beauty of many plants is lost when ample room is not given to display their individuality. It is true that many of our greenhouse plants come from tropical forest jungles where they have a very poor show. The jungle in the tropics is the place where one can witness the struggle of the plants for an existence. We do not see them there under the best conditions, and we do not want to copy that in our greenhouses. What we want to study is a piece of tropical vegetation where the conditions are all favorable, when the plants are fully developed and do not have to struggle for life. The plants must have ample room to develop if we want to produce that beauty of stem and graceful curvature of leaf and frond, which is most pleasing to the eye. Large plants such as palms, tree ferns, and bananas, whether planted out or otherwise, should not be arranged in straight lines in the centre of the house, but should be placed irregularly and far enough apart that their leaves or fronds do not touch one another. Under the shade of these plants such things as calatheas, marantas, anthuriums, ferns and selaginellas may be used.

The advice in the above notes relates more to the plants in the centre of the house. The plants on the benches should be smaller and groups of flowering plants add much to the beauty and effectiveness. Far better effects can be produced if the plants are set in groups than if mixed indiscriminately. Groups of such plants as ixoras, clerodendrons, imantophyllums, bougainvilleas, eucharis, gardenias and stephanotis when in blossom give a fragrance and brightness to the surroundings that is sure to charm anyone. The same applies to plants with highly colored foliage such as codiums, dracaenas, acalyphas and such like; they, too, are more pleasing when arranged in groups.

There is nothing more lovely in a large greenhouse than a roof well-covered with climbing plants. They need a great deal of care and patience to get really satisfactory results from them. They should be tied up

carefully and neatly to wires which have been provided. At the same time the flowering branches should hang down gracefully and away from the glass. Some tropical climbers that give stunning effects when properly trained are: *Thunbergia grandiflora*, *Thunbergia laurifolia*, *Stephanotis grandiflora*, *Porana paniculata*, *Allananda Hendersoni*, *Solanum Wendlandii*, *Passiflora quadrangularis*, *Petrea volubilis*, *Bignonia venusta*, *Bougainvillea glabra* and *B. spectabilis*.

There are many little things that add very much to the artistic effect. Nothing gives a more tropical touch to a large house than a few well-grown *nepenthes*. If they are given suitable places their pitchers are always sure to attract attention. The staghorn ferns (*platyceriums*) in the same way are extraordinarily striking when placed in positions where they will show to advantage. *Tillandsias* and *bromelias* are curiously shaped plants living on very little but air and moisture; their quaintness adds much if they are placed where they can obtain plenty of sunlight which makes them flower profusely.

The stems of tree ferns can be clothed with the small creeping polypodiums or climbing *philodendrons*. *Oncidiums* and *epidendrums* can be attached to stems of large palms or tree ferns where they will give pleasing glimpses of how they grow naturally in the tropics. Under benches where the ground is not covered with pipes should be planted with *Tradescantia zebrina*, *Selaginella Krusiana*, *Rex begonia* or *Panicum variegatum*.

There is nothing that makes a more pleasing border along the edges of the benches than a row of small pots of *Panicum variegatum*. Its variegated leaves and stem hang down gracefully over the front, obliterating the bare and barren look of the edge of the bench. Scores of little things like these can be added which are always sure to give pleasure after they are once done. Plants, pots, and, in fact, everything ought to be clean in an artistically arranged house. Neatness and tidiness count for a great deal.

A large tropical house, to produce fine effects with large plants, should measure at least 200 feet in length, 50 to 60 feet in width, and not less than 50 feet in height. This will seem a large house to some persons but I will give you the dimensions of two large houses in which I helped to arrange the plants and where fine effects were produced. They are the palm house and the temperate house or winter garden at the Royal Botanic Gardens, Kew, England. The palm house is 362 feet long, the width of the centre is 100 feet and it is 66 feet high. The wings at both ends are not quite as high or as wide. The temperate house or winter garden is probably the largest plant house in the world. The central division is 216 feet long, 140 feet wide, and 60 feet high. The octagons at both ends of the central division are 54 feet in diameter. The south wing measures 116 feet long, 64 feet wide, and 38 feet high. The north wing also measures 116 feet long, 64 feet wide and 38 feet high. The total length of the structure is 628 feet. The cost was about \$300,000.

In the vicinity of Boston the best arranged tropical house is to be seen at Joseph H. White's place in Brookline where James Wheeler presides. The large palms, cycads, and other plants are given ample room to show their individuality.

Robert L. Emerson

Fruit and Vegetable Forcing at Irondequoit, N. Y.



A HOUSE OF CUCUMBERS
View from Above.



A HOUSE OF CUCUMBERS
View from Below.

That Irondequoit occupies a unique and comparatively enviable position among localities where fruits and vegetables of various kinds are grown in great abundance, all who are familiar with the situation are aware; and that it is not alone for the great quantities of fruits and vegetables that are produced within the borders of the town, that she is noted, but for fruits and vegetables of superior excellence in appearance and quality.

Intensive, expensive, and extensive are words which convey to one nearly the entire thought, in connection with the culture and growth of fancy vegetable stock by the green truck gardeners. To give an idea of one immense farm is difficult. It is not extensive as to acres, but extensive as to yield; intensive in science and expensive in maintaining, yet returns a fair profit.

Vegetable growing is most profitable especially the green house department, for the reason that there is a greater demand for good green truck in winter than in the hot months of summer. The risks on crops may be greater, but the profits are correspondingly large. Some gardeners make a business of growing mixed crops, while others specialize with one. By mixed crops is meant the growing of lettuce, radish, cucumbers, parsley, beets, tomatoes, carrots, and other vegetables. The mixed crops in Irondequoit green houses seem to pay better profits because of the town being near to city

markets which demand a large quantity of first-class truck. The gardeners do not handle their own product on the city market, but sell in wholesale to the retail merchants. The grower ships much of his produce to other city markets, finding it safe to ship 50 to 300 miles, so that the field of the grower is rather broad. But in shipping the grower must take into consideration the extra expense of express and freight rates for transportation.

In the early days of gardening in Irondequoit land could be purchased for \$50 to \$100 per acre, but at the present time one is fortunate to find a good piece of gardening land for \$1,000 per acre. The average size of a gardener's plot is ten acres. The gardener when he starts to build up his garden-farm after building house, barn, and sheds, puts up greenhouses, it may be one or two possibly more, and they may vary in size from those spaded by man to those ploughed by horse power. The cost of the houses may be \$1,000 or \$3,500.

In floral culture more than one kind of flower cannot always be grown to good advantage in one house, but vegetables are different. One can see many houses with five or six different kinds of vegetables in a good state of growth. To build up a garden-farm like the average in Irondequoit would require an investment of nearly \$20,000. The ten acres of land would cost \$10,000, three good greenhouses \$5,000, a good house

\$1,000, and other equipment \$1,000. And the gardener considers these a good investment.

Some such establishments have been erected and by careful planning the gardener has discovered it to his advantage to erect more greenhouses until some now have ten or twelve, and have built tenant houses for the help which sometimes number five or six.

The growers draw from the city and order from other cities, the manure used for fertilizing the soil. Failures in crops sometimes happen; the reason seldom being apparent and such a case puts the grower to studying.

Specialization in cucumber or lettuce offers opportunities for growing crops of the highest quality and for competing in the market for the very best prices. The cost of specializing is practically the same as for general crops, but, the man who has trained for general gardening often meets failure when he attempts to specialize on one crop.

These big-little farms are whole stories in vegetable culture.

H R Peachey.

Irondequoit, N. Y.

British Horticulture

GOOD PRICES FOR ORCHIDS

Some duplicate orchids from the Earl of Tankerville's Chillingham collection were recently sold at the auction rooms of Messrs. Protheroe and Morris in London. Many of the lots realized high prices, the highest being £735 for *Odontoglossum crispum*, var. *Leonard Perfect*. The plant sold was a portion of one shown last year at the Holland House exhibition, when it aroused great interest amongst the orchidists. It was afterwards purchased by Mr. Cookson and the Earl of Tankerville for £1100 and divided into two. It will thus be seen that the Earl made nearly £200 out of this transaction, once more emphasizing the fact that there is still money to be made from this branch of horticulture. The plant sold consisted of a single bulb and growth. The buyer's name did not transpire. Amongst other *Odontoglossums*, Mabel Whately realized £210, a second plant being knocked down for £189; two plants of brilliantissimum sold for £189 and £147 respectively. Tankerville made £105 and *ardentissimum* £105. The total amount realized by the 251 plants was £3,280. Most of the lots had to be bought "on trust" as far as the blooms were concerned. Very few of the plants were in flower, but the most expensive were depicted by colored illustrations showing the form and markings of the flowers. The sale created keen competition amongst the buyers.

A NOTED HORTICULTURIST'S DEMISE

British horticulture has sustained an irreparable loss by the recent demise of Sir Thomas Hanbury, who was the owner of a famous garden in the Riviera. For some years he kept up an interchange of plants and seeds with

gardens all over the globe. His noted collection included a great variety of plants especially agaves aloes euphorbias, yuccas, cacti, etc. Australian and New Zealand plants were also largely represented. The garden attracted visitors from all parts of Europe. Sir Thomas Hanbury will long be remembered in Britain for his generosity on behalf of his favorite hobby. A few years ago when the growth of suburban London caused the Royal Horticultural Society to seek for a more congenial spot for their garden than Chiswick afforded, Sir Thomas came to the society's aid. He purchased the garden of the late G. Y. Wilson in the heart of rural Surrey, and presented it to the society on condition that its main features were preserved. The garden is about sixty acres in extent, and favorably situated for a successful carrying on of the society's experimental work, and the gift has immensely aided the work of the premier horticultural organization. The donor was very unassuming and desired no publicity for his great services to his fellow horticulturists. His knowledge of plants was very wide, and his happiest periods were spent in the garden, where he was always willing to place his extensive knowledge at the service of his many interested visitors.

ANOTHER CARNATION SHOW

The second show of the Winter Flowering Carnation Society, held on March 13th, was very encouraging to the promoters. It indicated that the new society has come to stay. At present the exhibitions are made up by the fine specimens contributed by the trade, but there is no doubt that in time the amateur growers will be more in evidence. Guernsey, the home of numerous market growers, has come to the front in the new development of carnation culture. On this occasion the island was well represented. Some floral designs proved a popular feature. The most striking was a tall cross of white carnations rising from a plinth, with a wreath of violets at the apex. Only one novelty received the attention of the Floral Committee, and this was an improved White Lawson, which received a certificate. There is every evidence that the cult of the winter flowering carnation is steadily developing in this country.

A REMEDY FOR A BLACK CURRANT PEST

For some years fruit growers have sustained heavy losses, owing to the ravages made by the black currant gall-mite. So serious has been the damage sustained that on a number of nurseries there has been a cessation of black currant culture. Growers who secured some of the so-called disease-proof varieties were doomed to disappointment. The remedy which has chiefly been adopted against the ubiquitous insects has been the grubbing up of the bushes, and their destruction in a bonfire. As a result of some exhaustive experiments, W. E. Collinge, director of the Department of Economic Zoology at Birmingham University, has discovered what he regards as an effective remedy. Experiments were made with some affected bushes. The bushes were dusted over three times in about two months with powdered quick-lime and sulphur—one part of the former to two of the latter. It was seen that even where the big bud had made its appearance, in altogether reduced numbers, the few mites found within them were almost wholly immature. The treatment will now be tried in various parts of the country as a result of the recent publicity given to the experiments.

W. H. Adsett.

Cucumbers Under Glass

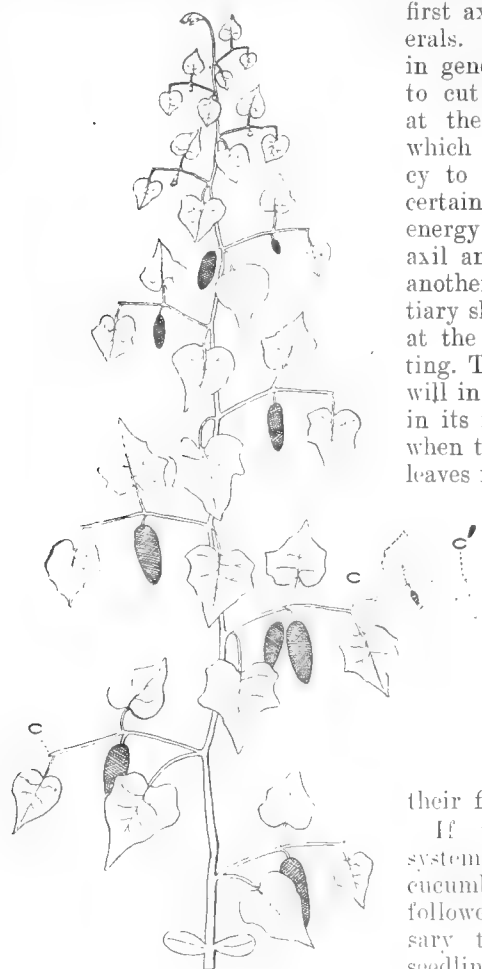
11.

PRUNING

The object of pruning is to limit the growth of the plant in certain directions, and concentrate the production of fruit in certain axils, and since cucumbers are quite constant in their habit of setting fruit, advantage can be taken of this fact. Fruit is generally to be found in every seventh axil on the main stem and every

first axil of the laterals. In pruning, in general it is best to cut every lateral at the second leaf, which has a tendency to concentrate a certain amount of energy in the first axil and will induce another (lateral tertiary shoot), to start at the point of cutting. This new lateral will in turn set fruit in its first axil, and when this forms two leaves it can likewise be pruned like the others. This method of pruning causes the formation of a series of laterals which set fruit in their first axils.

If the two-stem system of training cucumbers is to be followed it is necessary to prune the seedlings about the time the first leaf is



Single Stem System

formed. The pruning should be done just above the first leaf, which will cause a new shoot to start there, and induce another shoot to start in the axil of the cotyledons, but the majority of cucumber growers make use of a single stem.

GROWTH OF YOUNG PLANTS

Cucumber seeds may be sown in flats containing earth of a loose texture, or in special houses adapted to the growth of seedlings. It is not advisable to force seedlings too rapidly, since they are likely to "damp off." "Damping off" is a seedling disease peculiar to the cotyledon stage, and cucumbers are usually immune to this after they have formed one or two leaves. When these are formed, the plants should be carefully transplanted into pots or directly into permanent beds, if necessary. More care should be taken in transplanting cucumbers than lettuce, since a lettuce seedling will revive when transplanted, even though there is no soil on the roots, whereas it is advisable to disturb the soil

around the roots of a cucumber plant as little as possible.

TEMPERATURE

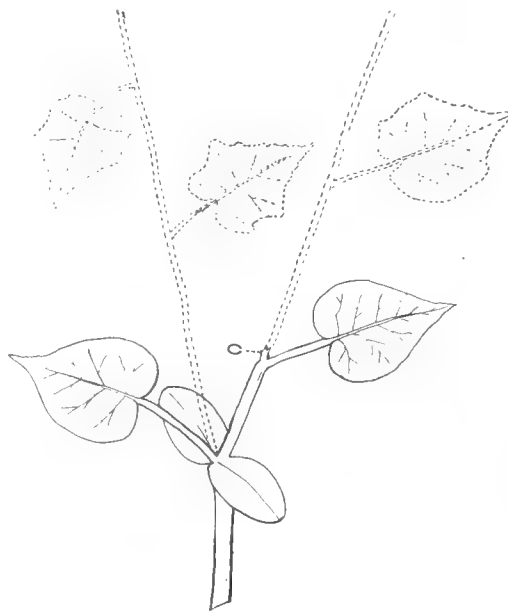
The normal temperature for cucumbers is about 65 degrees at night and 85 or more during the day. Temperature requirements vary with the condition of the weather, as a higher temperature can be maintained in sunshiny than in cloudy weather. During a series of cloudy days it is well to keep both the day and night temperatures down. This is more necessary when cucumbers are grown in poorly lighted houses than in well lighted ones, since light is pre-eminently a factor which produces texture in plants. Care must also be exercised against too high soil temperatures, since certain troubles result from them.

WATERING AND VENTILATION

Ventilation requires the most careful attention, since the presence of a certain amount of fresh air renders the plants more hardy and prevents infection from mildews, etc. There are probably no features connected with the care of plants which offer more examples of carelessness on the part of gardeners than watering. Over-watering of cucumber vines is easily accomplished, especially during cloudy weather, when evaporation from the soil and transpiration is slight, and in such cases the soil is likely to become soaked and remain in this condition too long for the welfare of the plants. On bright, sunny days, when transpiration and evaporation are active, it is necessary to apply more water. Too much moisture in the air is conducive to fungous infection, and this is especially true in regard to the various mildews.

DISEASES

The diseases of crops under glass are so clearly dependent upon conditions, such as light, moisture, and heat that it is always necessary to consider them in con-



Two Stem System.

nection with the general management of the house; in fact, there is no detail of greenhouse management which does not, in one way or another, influence crop production and bear upon susceptibility to disease.

There are two mildews which are met with in cucumber houses, one of which is known as the powdery mildew, which occurs on the upper surface of the foliage, more abundantly on the lower leaves or older ones, which possess a reduced vitality. Powdery mildew seldom, if ever, occurs in houses which are well lighted and ventilated, and can generally be found when the opposite conditions prevail. Fortunately powdery mildew is not a serious factor in cucumber growing, and if attention is given to the moisture, heat and light there is little probability of its gaining a foothold.

Downy mildew is a more serious factor to deal with, although it occurs in houses only during a short period of the year—from August to late fall. We have never failed to hold this in check by controlling the moisture conditions. If new crops are not started until the latter part of September and October there is little risk of the mildew's appearing in the house; therefore, the best way to keep it out of a house is to start the crop rather late and maintain at first dry conditions in the atmosphere of the house.

Bacterial wilt has lately caused some damage to crops of indoor cucumbers started in August. It has not been observed on cucumbers started in September, and what is true of downy mildew appears also to be

true of bacterial wilt. In general it may be stated that if growers wish to start their crops in August the atmosphere should be kept dry, and if any syringing is to be done, it should take place on sunny mornings when the plants will dry off quickly, not allowing the spores to germinate.

This is also true of Anthracnose, which is common out-of-doors in August on melons and cucumbers. This disease, however, occurs in greenhouses in spring as early as March, and it is necessary to be on the lookout for it at that time of the year.

There are various other troubles common to cucumbers which are the result of peculiar handling of the crop. Some of these are leaf curl, stem curl, wilt, etc.

Timber rot is occasionally present, and eel worms have been known to do much harm to cucumbers under glass. The former is not a very troublesome disease, but eel worms have proved to be so, and the best method of eliminating them is by sterilizing the soil.

G. E. Stone

Amherst, Mass.

A Palm House at Oakdale, N. Y.

The accompanying picture gives an interior view of W. K. Vanderbilt's palm house at "Idlehour," Oakdale, L. I. Its noticeable feature is the unique employment of a raised vestibule entrance, giving an opportunity to look directly down upon the palms and showing to the best possible advantage their individual beauty. These raised vestibules give a charming note of distinctiveness to such a house and take away that usual storage room effect.

This design and treatment was the work of the Lord Burnham Company, who replaced (at one-third the cost) the original \$70,000 palm house with its heavy shade-casting architectural features, which made the thriving of palms an impossibility.



**A Colored Plate will be sent out with
next issue.**

Subject—"ALLINGTON PIPPIN."

HORTICULTURE

VOL. V

APRIL 13, 1907

NO. 15

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 05

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;

six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass. under the Act of Congress of March 3, 1879.

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From the mass of Easter items clipped Making progress from the daily papers we gather abundant evidence that the florist business all over the country is being conducted on a higher and more intelligent plane than in times past. Florists

are apparently learning that the newspaper reporter, wisely handled, may be made a very influential agent for their benefit. It is not so very long ago that many of the flower dealers seemed to consider it quite the proper thing to boast and exaggerate concerning the details of their business, to spin fabulous yarns and on the approach of any special holiday to give currency to most alarming predictions as to scarcity and inflated values of flowers. Today we find the papers teeming with alluring news and gossip of the flower stores, telling of the good things being prepared to appease the flower hunger of everybody—those with slender purse as well as those with abundant means—and that there will be plenty for all. We note with pleasure other auspicious movements, on which the trade may be congratulated and to which we shall have occasion to refer at another time.

It is in the air that the recent Easter experience with forced bulb flowers has so discouraged the growers of such stock that the importations of bulbs for this use next season are likely to be much reduced. While no one can blame the grower for feeling keen disappointment when he finds himself compelled to accept a return for his flowers which scarcely covers or possibly does not cover the first cost of the bulbs, yet it must be evident to any one cognizant of the conditions that the bulb growers' methods might be improved much to his own advantage and for the benefit of the flower market in general. In no branch of the floricultural profession do we find such haphazard methods or more wasteful extravagance. Take for instance the quantities of early-forced tulips that are to be seen in the wholesale markets at the Holidays—mere shreds of color and practically valueless, yet every bulb thus destroyed had to be paid for in good money. Indeed a large proportion of the tulip shipments reaching the markets all through the forcing season show poor judgment in the selection of varieties, over-forcing, rough handling, and hasty packing. Apparently little thought has been given to bringing out the finer character of these flowers or to provide the buying public with the finely cupped, stout petaled blooms which it is possible to produce under careful culture. Good form is an essential in the tulip as it is in all other florists' flowers and the flimsy looking specimens usually seen are not calculated to help this flower in the estimation of the buyer. The above observations apply with equal force to the narcissus in all its forms. One finds it difficult to recognize in the fragile, flabby material so abundant in the flower markets, the sturdy sorts which produce, under favorable conditions, those superb heavy-textured flowers which compel the admiration of everyone. It would be interesting to know and, we doubt not, would disclose some startling figures if a reliable estimate could be made of the proportion of the entire forcing bulb importation which goes to loss, either through inferiority of bulbs or unwise treatment in forcing and marketing the product.

WHOLESOME CHESTNUTS.

We know too well that there is but a small enough margin of profit in bedding plants when all or practically all the stock grown is sold, but if a surplus of large proportions is left on hand a serious matter is up for consideration. Invariably the cause of much of this left-over business can be attributed to poor stock, plants not in bloom or faulty guessing in regard to best sellers. The latter condition we may not always be able to control, but the two former are without doubt of our own making.

Always aim to have every plant in flower that should be in flower. It will be of little use entering into a lengthy discussion with a customer in regard to superior or equal merits of a plant not in flower; the average customer considers such the same as buying a pig in a bag.

Geraniums in 3 1-2 or 4 in. pots placed pot to pot and left in the same place four or five weeks at this time of the year cannot reasonably be expected to show up stocky and furnished with foliage down to the rim of the pot when taken up. Move the plant occasionally, letting air in around them. Leave a little space between each plant; it will help so much to bring the plant up to what will be expected of them. Don't check geraniums or anything else by a sudden exposure to a radical change of temperature, because such action will affect their blooming propensities. Admit air gradually after the plants are in frames if such disposition is made of them.

Pansies are always favorites with the fair sex when out shopping early in spring and should be displayed in full view of passersby. Pansies grown in flats right along can be exposed for sale without being disturbed; just lift the plants from out the flats with sufficient soil attached to insure their subsequent well-being. Plants lifted out of frames should have enough soil clinging to the roots and made somewhat additionally adhesive with the hand. These plants should be placed moderately close in flats and displayed the same way as the others.

Salvias should, by selling time, be in new pots but should have been long enough in that size to cause them to be pot bound, because in that case the foliage will not have that soft green appearance essential to the good health and thrifty condition of the stock.

Cannas, when offered for sale at retail, should be well started into growth either by placing the clumps on a bench and lightly covering them with soil, and then after they have started potting them into 4 in. pots, or dividing them right away and placing portion divided into a 4 in. pot. One eye will be sufficient for the formation of a plant. Another method of starting cannas is that of dividing the roots and then placing them in flats 3 1-2 in. in depth, leaving them in these until planting time. Pots are more generally satisfactory for several reasons.

Please discontinue my geranium ad. I have so many inquiries for plants and I am sold out of the small sizes I advertised.

WM. DOEL.

Pascoag, R. I.

STENANTHIUM ROBUSTUM.



Courtesy of H. P. Kelsey.

The remarkable hardy perennial is, without doubt, one of our best new introductions, and may be classed with the showiest of all herbaceous plants. As the buds begin to unfold in early August they are quite upright, and of a light green tinge, gradually becoming whiter until at last they burst forth into a veritable snow-bank of drooping, fleecy bloom of purest white, the panicles often 2 to 3 feet long. In September the flowers, as they ripen, turn to shades of pink and purple. It is a vigorous perennial, attaining a height of from

5 to 8 feet when well established, and is absolutely hardy throughout the United States and Canada.

The Mountain Feather Fleece is of easy cultivation, and, if given plenty of food, makes a wonderful show equaled by few plants of any description. Give rich soil and ordinary border location.

The illustration gives some idea of the wonderful effect of *Stenanthium* when in full bloom, but inadequately conveys the beauty of the delicate, feathered, drooping flowers. When known, it will be planted by thousands.

NOTICE TO FLORISTS' CLUBS.

At your next meeting get a list of your members who would like a carnation measure. Mail the list to Kroeschell Bros. Co., 35 Erie Street, Chicago, Ill., and they will mail each a measure free of charge.

"Any one of these vases of flowers \$1.00, including vase."

The above sign is displayed in the window of A. Warendorf on Broadway, New York, in connection with a number of vases of long-stemmed flowers tastefully arranged, each showing a different combination of colors. The vases are of clear glass, of graceful form, but inexpensive, and the idea seems to be a good one, especially at the present time, when all flowers are so low-priced in the wholesale market.

PERSONAL.

James Shea of Lowell has taken a position with Quinn of Brookline, Mass.

H. D. Brooks of Manchester has taken a position with E. P. Stannard of Westbrook, Ct.

F. A. Bartlett of Hampton, Va., has taken a position as manager of Kilravock farm, Litchfield, Conn.

M. Stauch leaves Council Bluffs, Ia., for a position with the Pittsburg Rose and Carnation Co., Bakerstown, Pa.

Joseph E. Rolker, of August Rolker & Sons, New York, sailed on April 4 for Europe to superintend the filling of orders and look for novelties in the florist forcing line. He expects to be absent about six weeks.

NEWS OF THE CLUBS AND SOCIETIES

NEW JERSEY FLORICULTURAL SOCIETY.

Orchids prevailed as usual at the April display held on the 5th instant. Lager & Hurrell exhibited *Cattleya Schroderae* alba and *Laelio-Cattleya*. G. S. Ball, both of striking appearance, and vases of the various season's blooms. Julius Roehrs Company contributed beautiful examples of *Cattleya Schroderae* var. *Baroness*, *Cattleyas Rutherfordense* and *Mossiae*, *Odontoglossum Pescatorei* and their new crimson azalea *Julius Roehrs*. Joseph A. Manda displayed four *Cattleya citrina*, and *Cypripedium Salisii pictum* var. with a yellow margin to dorsal sepal instead of the usual white. Orson A. Miller also exhibited orchids. Carnations were shown from S. and A. Colgate. William Reid, gardener, and Charles Hathaway, Max Schneider, gardener, who also had *Cineraria stellata*, tulips *Kaiser Kroon* and *amaryllis*, *Empress of India*, J. Crosby Brown, Peter Duff, gardener, contributed a vase of white and purple *schizanthus*, and also a specimen *Adiantum dolabriform*. Judges for the evening were A. T. Caparn, M. Mac Rorie and Edward Roehrs.

The paper of the evening was by John E. Lager upon *Travels in the Tropics* and was received with marked attention. It was decided to hold a special rose night on June 7 and a dahlia night. The schedule for the fall show received its first reading. This is now an assured fact from the guarantee fund of \$200 already subscribed among the society's patrons and still growing. Designs for the society's medal were displayed, but action delayed until next month. Resolutions of condolence were read upon the death of the late Orson D. Munn and ordered spread upon the minutes. J. B. DAVIS.

NEW YORK FLORISTS' CLUB.

Monday evening, April 8, was ladies' night at the club headquarters, 23rd street, and the club kept "open house" with characteristic hospitality. The attendance was not large, there being only about seventy-five present, of whom nearly one-half were ladies, but the affair was particularly home-like and enjoyable to a greater degree than would have been the case had the attendance been twice as large. Songs and piano music were acceptably rendered by a number of visiting ladies and by the club's own musical entertainers, the Rickards brothers and John B. Nugent. Other members, of more timid disposition, were not at all backward in coming forward with some resounding choruses after the ladies had gone to the banquet hall. Messrs. O'Mara and Stewart were called upon to say something about the recent rose convention at Washington, and responded briefly, the former eloquently advocating the encouragement of amateur support for the American Rose Society, the latter giving it as his opinion based upon two years' experience as secretary of that society, that the "high society" element is not yet prepared to co-operate with the trade people in any enterprise of this kind.

NORTH SHORE HORTICULTURAL SOCIETY.

This society held its regular meeting in Manchester on April 6th, president McGregor in the chair. Mr. Thomas Jack read a very good paper on greenhouse plants and their cultivation, treating this subject on broad lines, principally describing the varieties most suitable for window and conservatory work during the winter and for the piazzas during the summer. Mr. Jack enumerated a great number of the old reliables as well as varieties of more recent introduction, describing the different methods of propagation and treatment as regards watering, shading, temperature, etc.

In the discussion following Messrs. Parsons and Salter spoke on cyclamen culture, recommending that the seedlings be left in the seed boxes until they have attained a good size before potting off, and during the summer months to be planted out in frames and grown with good ventilation and light but sufficient shading.

Certificates of merit were awarded to James McGregor for three vases of antirrhinum and to James Salter for spikes of *Lilium Harrisii*.

J. K. M. L. Farquhar will give a stereopticon lecture on *Gardens of Italy* in the Town Hall, Manchester, on April 26. WILLIAM TILL.

CONFERENCE AT NEWPORT, R. I.

The R. I. League of Societies for Rural Progress had a conference in Newport and Middletown on Monday and Tuesday of last week. On Monday evening a meeting was held in the Grange Hall, Middletown, Master of the State Grange Marchant in the chair. The speakers were President Butterfield of Amherst Agricultural College, President Edwards of the R. I. Agricultural College and Professor Wheeler, director of the R. I. Experiment Station. All the speakers confined their remarks to agriculture and more especially the claims of agricultural colleges for recognition as sources of instruction in practical agriculture.

On Tuesday Mr. Clapp of Boston spoke on the school garden question, and Mr. Rogers of the same city on the gypsy moth problem. In anticipation interest was chiefly centered in the evening session when Prof. Bailey of Cornell was scheduled to speak. Considering his subject Bailey's address was more than satisfying but his subject was exclusively agricultural and agricultural college work, and his audience, which was disturbingly small, was not agricultural by any means. Nevertheless the professor was listened to and appreciated to the extent his universally recognized ability deserves.

The conference on the whole may be productive of some good but the lack of interest on the part of the general public was surprising, considering the array of prominent men participating. Even the horny handed farmers of Middletown, in whose behalf without question the greatest exertions were put forth in order to bring them into a state of civilization, were luke warm in their reception, but it was always thus even in the days of the early evangelists.

PITTSBURGH AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The subject at the club meeting April 2nd was *Roses and Bulbous Plants and Blooms*. The Pittsburgh Rose and Carnation Co. made an attractive display of roses, and the president of the company, Fred Burki, was called upon for his opinion of the many varieties. Many of us were surprised to hear his strong commendation of *Madame Cusin*. Attention was called to its good keeping qualities, its fragrance and that it sells better than *Bridesmaid* or *Killarney*. Evidently here is a treasure that has been somewhat underestimated. *Wellesley*, was never before shown at our meetings. The flower much resembles *Chatenay* and did not seem sufficiently striking or distinct to gain a strong foothold. *Killarney* merits much of its praise. Its bud is exquisite. *Bride* is still the best of its color, and *Bridesmaid* still holds a good place. *Miss Kate Moulton*, attractive with its heavy, broad foliage, is not particularly free, and a little weak in the neck; but sufficiently good to warrant another year's trial. *Madame Abel Chatenay* is a fine all round rose, with the longest, strongest stems of any. Despite what Shakespeare makes King Richard say, there is but one Richmond in the field. A magnificent rose, the best grown. The sentiment of the club seemed so strongly with the speaker on this point that the secretary was instructed to write the originator of the rose, E. G. Hill, and express to him the congratulations and appreciation of the club, on his having introduced such a rose to the world.

There were no American Beauty shown. A few years ago a rose show without the American Beauty would be like the play of Hamlet, with Hamlet left out, but now with the multiplicity of good roses the omission is not so striking. Our rose growers are dropping the American Beauty; they say there is more money in other varieties, and even with them the carnation seems slowly pushing the rose to the wall as far as profit is concerned.

Allegheny Park Conservatories, Wm. Hamilton, supt., showed a collection of unusually well-grown cinerarias, *Cineraria stellata*, hydrangeas, several pots of *amaryllis* in bloom, *gloxinias* and a *tydea*. Dr. Shafer, *Laelio-cattleya hybridensis*, unique in color. Phipps conservatories, Schenley Park, showed some 25 or 30 pots of *hyacinths* in variety, the merits and demerits of which were discussed by Mr. Jno. H. Bockman, representative of the Holland Bulb Co., who was present at the meeting. The statement of one of our largest tulip growers that after forced tulips had bloomed, he cut the tops off, and planted the bulbs out doors in the fall, and had better flowers from them than from unforced bulbs planted in the open at the same time, was received with much incredulity by the Dutch representative. Mr. Bockman explained the method of growing *hyacinths* in Holland, the high cost of land, the great amount of labor in preparation of the soil, and the many years of time involved in

the production of a marketable bulb, and claimed the price was not at all too high.

The matter of delinquent dues is always a delicate one to handle, and when it was brought before the meeting it was decided that in the few almost hopeless cases the secretary should write a final notice for settlement before the next club meeting, but the majority of ordinary cases were assigned to personal friends of the delinquents for an interview. This plan has been tried in former years and been very successful.

The "Credit" question has become a prominent issue in Pittsburgh and it with "Bedding Plants" was made the subject of discussion for the next meeting May 7th. H. P. JOSLIN, Sec'y.

NEW BEDFORD HORTICULTURAL SOCIETY.

At the monthly meeting of this society, held on the evening of April 8th, a large audience gathered to hear N. Allen Lindsey of Marblehead deliver an address upon the culture of the dahlia. Mr. Lindsey was unable to come. He hopes to make good his promise at a later date. The subject of the dahlia was not allowed to rest. A. J. Jahn took the floor and replied freely to numerous questions regarding his experience with raising dahlias and carnations. The meeting, which was the best attended of any since the society started, was full of interest and instruction.

At the monthly exhibition of plants and flowers, *Dendrobium nobile* was shown by Wm. Keith and begonias Lorraine, Turnford Hall and superba by James Garthly.

THOMAS WHITE.

DAYTON FLORISTS' CLUB.

At the last regular meeting of the Dayton Florists' Club, April 4th, G. W. Bartholomew, the newly elected president, presided. A unanimous vote of thanks was tendered the retiring president, J. B. Heiss, for his untiring services rendered the club.

It was decided that the Dayton Florists' Club subscribe \$150 to the guarantee fund of the National Flower Show. The Easter trade was reported good. It was the general opinion of all that there was a marked increase in the demand for blooming plants. There was an ample supply of most all cut flowers, for which there was a healthy demand.

DETROIT FLORIST CLUB.

The meeting of the Detroit Florist Club, April 4, was the best attended of the season. Apparently the desire to exchange Easter experiences and the prospect of listening to two papers of great importance, one on plant bedding and bedding stock by Robert Unger, horticulturist at Belle Isle, and the other on florist clubs by J. F. Sullivan, were attractions enough to lure every member from his fireside.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY.

A meeting of the above society was held last Tuesday night, about 60 members being present. Prof. Clinton of the Connecticut Experiment Station gave an instructive lecture on Fungi. He illustrated his lecture with stereopticon views. It was one of the finest lectures ever given before the society.

VIEW IN PALM HOUSE, SOUTH PARK BOTANICAL GARDEN, BUFFALO, N. Y.



We present herewith an interesting view in the great palm house at the Botanical Garden in Buffalo, looking

up through the palms to the central tower. This house was designed by the Lord & Burnham Company.

WASHINGTON FLORISTS' CLUB.

At the regular monthly meeting of the Washington Florists' Club held April 2, it was hoped that all the loose threads left of the rose convention would be taken up and finally disposed of, but it was found impossible to do so. Some important matters were however disposed of.

The \$50.00 silver cup offered by George H. Cooke for vase of 50 best Richmond roses and won by Wm. H. Elliott of Brighton, Mass., was shown around for the purpose of deciding upon the proper inscription.

Pres. Bisset instructed Sec. McCauley to write notes of thanks to Edward A. Beaven for the wild smilax donated by him, and used in decorating Convention Hall; also to W. Weber for his services as judge at the convention. The secretary was likewise instructed to write similar letters to George C. Shaffer and as-

stants for competent and artistic manner in which they decorated the banquet hall. Messrs. Beaven and Weber returned the checks sent them by the club for services rendered, as did also David Bisset for the violet prize won by him, and Z. D. Blackstone the \$25.00 prize for his mantel decoration. Prof. Weber's name as honorary member of the club was voted upon and accepted. It will be remembered that credit is due him for transplanting the orange further north. (It is also rumored that he crossed two oranges and got a lemon.)

Fred D. Owen connected with the public buildings and grounds has written to Z. D. Blackstone in regard to enlisting the interests of the Florists' Club to assist him in connection with the government, in making Washington more beautiful. The idea is to interest tenant and property owner alike in beautifying their premises. In order that they may do so intelligently and be instructed as to what, when, and how to plant, Mr. Owen asks the hearty co-operation of the club. "F."

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

At the next meeting in Horticultural Hall, on April 16, B. K. Howard, instructor of the late landscape classes, will speak on landscape gardening. Fine exhibits are promised and other interesting features will make the meeting one which members cannot afford to miss.

The annual club banquet will take place on Wednesday evening, April 24, at Horticultural Hall. Reception at 6.30, banquet at 7 o'clock, followed by a musical entertainment and dancing. Tickets are \$1.50, and can be had from the officers of the club and members of the executive committee only. None will be sold after April 20. As an exceedingly large attendance is anticipated, an early application for tickets is urged.

W. N. CRAIG, Secretary.

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By James D. Cockroft, Northport, N. Y. Sensation. Color, a beautiful shade of bright cerise; form, well built flower of large size; calyx perfect, does not burst; stem from 24 to 30 inches and over from September to July. Keeping qualities of the best, early free and continuous habit, strong clean growth, every shoot producing a flower.

ALBERT M. HERR.

Lancaster, Pa.

CLUB AND SOCIETY NOTES.

The Horticultural Society of New York hold their annual exhibition on May 8 and 9 in the Museum Building of the New York Botanical Garden.

Alex. Cumming of Elizabeth Park, Hartford, Ct., addressed the Amateur Horticultural Society of Springfield, Mass., on Roses, on the evening of April 5.

The ninth in the series of lectures on agriculture and horticulture under the auspices of the American Institute of New York, was given on April 10 by Leonard Barron. Subject: "Lawns: How to Make, How to Keep and How to Renovate Them."

HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items:

BUFFALO, N. Y.—E. C. Brucker, 385-87 Elliott St.
CLEVELAND, OHIO—A. L. Hutchins, 2220 East 74th St.
COLUMBUS, OHIO—M. B. Faxon, 246 Oak St.
CINCINNATI, OHIO—Frank W. Ball, 31 East 3d St.
DETROIT, MICH.—Frank Danzer, 1487 15th St.
INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.
LOUISVILLE, KY.—F. L. Schulz, Jr., 1325 Cherokee Rd.
MONTREAL.—William Cooper, 338 St. James St.
NEWPORT, R. I.—David McIntosh, Ledge Road.
PHILADELPHIA, PA.—George C. Watson, Dobson Bldg., 9th and Market Sts.
SAN FRANCISCO, CAL.—Luther Monnette, 866 Isabella St., Oakland, Cal.
TWIN CITIES—John A. May, 163 Iglehart St., St. Paul, Minn.
TOLEDO, OHIO—J. L. Schiller, 929 Prouty Ave.

HEATING TOPICS.

About Boiler Inspection.

Referring to Mr. Palmer's report at the Gardener's and Florists' Club meeting on the hearing at the State House on the inspection of boilers I wish to say that I attended that meeting and as far as I could learn it was simply a dispute between the engineers and boilermakers, as to who should have the right of inspecting the boilers in the State. After an experience of fourteen years throughout the states erecting greenhouse boilers, I would say that the skilled mechanic should have the preference over all others. I have set up hundreds of boilers in greenhouses, among them tubular boilers that the Hartford people had cut the pressure on; they are running under a pressure, from 15 to 30 lbs. for ten years or more and I find the plate in the boiler practically just as good today as when it left the shops.

In regard to licensed firemen, I would rather a good upright and honest greenhouse man who has had

experience with fires, than a number of the licensed firemen of today. I know of a case that came under my notice, where a licensed fireman was the cause of almost freezing an entire greenhouse.

ers are run you will find the fault is not with the boiler in a great many cases, but with the one who has charge of boiler.

In regard to push nipple boilers I would say they are just as good for heating purposes as any cast-iron boiler, but they are not quite so safe as the lock-nut nipple boiler. If any part of a push-nipple boiler needs repairing you have to take the whole boiler apart, whereas with the lock-nut nipple boiler, if a part or section gives out, you can take a three-wheel pipe cutter and cut the connection to the damaged section, plug up same, and your boiler is ready for work again.

All hot water boilers should be thoroughly cleaned every other year. A very good way to do this, would be to close the main supply and return valves to the boiler, put on water gauge, so placed that gauge cock will show water in boiler when it reaches to within three inches of top, also have a steam gauge attached to boiler. Then fill your boiler until gauge cock shows water within three inches of top; start a wood fire in boiler and when you have from 10 to 30 lbs. steam draw the fire and blow off boiler. This will carry off all sediment. I would say too that there should be a safety valve on boiler when blown off by steam. Steam boilers should be blown off at least twice a year.

DANIEL ILIFFE.



D. ILIFFE.

experience with fires, than a number of the licensed firemen of today. I know of a case that came under my notice, where a licensed fireman was the cause of almost freezing an entire greenhouse.

Hot Water Boilers for Greenhouse Heating.

During my experience in greenhouse heating I have set up a great many different styles of boilers, among them, horizontal tubular, upright tubular, lock-nut nipple, push nipple, and portable upright cast-iron boilers. The tubular boiler makes a very good boiler for heating purposes, when properly taken care of. All the water should be run off and the boiler thoroughly cleaned once a year; when boiler and system should be refilled, and left so until it is required for use again. All boilers should be properly valved on supply and return.

The cast iron boiler should be blown off by steam, so as to clean out the boiler thoroughly. A great many boilers are found fault with as not giving satisfactory results, but if you look into the manner in which these boil-

PUBLICATIONS RECEIVED.

The National Chrysanthemum Society's (London) Year Book for 1907. This valuable publication is edited by Charles H. Curtis and C. Harman Payne and contains a vast amount of information valuable especially for the purpose of reference by chrysanthemum growers, the world over. Among the contributions therein are the following: Chrysanthemums in America, by Chas. H. Totty; Chrysanthemums in Decorations, by Dorothy M. Oliver; Early Chrysanthemums from Stool Divisions, by Percy A. Cragg; Chrysanthemums in Australia, by Thos. W. Pockett; Exhibition Incurred Chrysanthemums, by W. Higgs; Analysis of the National Chrysanthemum Society's Show 1905-6, by C. M. Collingwood; Chrysanthemums for Town Gardens, by Elderbert F. Hawes; Work of the Floral Committee and Classification Committee for 1906, by D. B. Crane; Market Chrysanthemums, by David Ingamells; Single Flowered Chrysanthemums, by W. C. Pagram; The New Chrysanthemums of 1906, by Chas. H. Curtis; New French Incurred Chrysanthemums, by C. Harman Payne. Portraits of several of these writers are given, and Charles E. Shea, president of the National Chrysanthemum Society is the subject of the frontispiece. The paper and typographical work are high class and the book is handsomely bound in cloth. The price is one shilling.

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EXTRACT FROM "RAMBLING NOTES ON TREES AND SHRUBS."

(Read Before the North Shore Horticultural Society, by J. W. Duncan.)

It is too seldom the case that enough attention is given by gardeners to the proper manner of planting trees and shrubs. Why they do not thrive better is often wondered at, not only by the owner of the place, but by the very men who planted them. I believe that every estate should have its own little nursery, and that before plants are put in their permanent locations they should have, at least, one year in that little spot where they will get a chance for proper care with the pruning knife, and have an opportunity to make those fibrous roots that are required to make a healthy growth when put in their permanent locations.

The first step in transplanting a tree or shrub is to have it properly dug. This should be done so as to save all that can be saved of the fibrous roots, and when the plant is being taken from one location to another care should be taken that the roots are well protected from the sun or drying air, which will, in a very few minutes, destroy the finest fibre of the roots and check the plant just so much in taking hold in its new location. This is the main reason why the gardener will do well to have his own little nursery. There are few nurserymen that take the proper pains in digging their trees and shrubs for shipment, and, consequently, a large percentage of them die or do not recover their active growth for a year or two. Perhaps the most important part, however, in tree or shrub planting is to have the ground properly prepared. If a tree or shrub plantation is to be made the ground should be deeply ploughed and subsoiled, having been gone over at least once each way with both land plow and subsoil plow. This will loosen up the soil so that the roots will have a chance for immediate action. If a piece of ground is so prepared in the autumn, planting may be done in the spring; and, by the way, spring is the most suitable time to plant all kinds of trees and shrubs. Although some species may do well enough if planted during the autumn, yet, in most locations, better results will be obtained if the planting is done in the spring. Many deciduous trees will do best if transplanted when the buds are just about to burst open: I refer to such trees as the maples, oaks, beeches, etc. I have often heard it said, and many eminent authorities agree, that, for transplanting evergreens, the late summer or fall months are the best; but, be that as it may, I never would recommend it, especially near the sea coast. There is no better time, I believe, to transplant pines, spruces, junipers, etc., than in the latter part

of the month of April or just before the new growth starts. Do not wait until it is started, as is often done, and that growth is checked for that season at least. I have been told, and I agree in the main with my informant, that as good a time as any to transplant rhododendrons and kalmias is when they are about to come into bloom. Pick all the flower buds off before moving, and the result will be that the plants will immediately start into a new growth and active root action will set in.

The pruning of trees and shrubs is something that needs the most careful consideration of the gardener. How often do we see shrubs all cut and butchered into the self-same shape, and, in fact, we can hardly tell until we look closely what the shrubs are. Trees require very little pruning after they have got properly started. All they need is attention, to see that no double leader starts in, or, perhaps, the shortening back of occasional side branches which might make the tree too unshapely. Evergreens require little pruning, but should be given room to develop a free natural growth, which is characteristic of many fine species. Of course, evergreens should have all inner branches, which may become dead, cut out. Special attention to this work among some of the varieties of retinispora should be given. The greater majority of the flowering shrubs will be much better if left to make a natural growth, rather than to be cut to pieces, as already mentioned. All the pruning that needs to be done with such shrubs as the viburnums, cornuses, deutzias, weigelas, ligustrums, etc., is to cut out occasionally any of the older branches, to give an opportunity for new growth; and this pruning may be better done in the summertime or after the plants have passed the blooming season. Of course, there are shrubs that need severe pruning; this may be done in winter. Of this class I have reference to hydrangeas, altheas, etc. Many shrubs should receive attention immediately after flowering in the summer months. If pruning is done in the way of cutting off the old flowers, a second or continuous crop of flowers will be had during the rest of the season. Of this class of shrubs we have several of the spiraeas, as callosa, Bumaldii and salicifolia.

SOME EXPERIENCES IN HYBRIDIZING.

A paper presented by John Cook before the Florists' Club of Washington.

Hybridizing has been carried on by botanists for nearly 200 years, but more for scientific knowledge than for the improvement of flowers, from the florists' standpoint in particular. The first hybrid tea roses were raised by Wm. F. Bennett of England, and the work was rapidly followed up by

German and French rose growers. The first American hybrid tea rose Souvenir of Wootton, was raised by the writer of this article about twenty years ago. It was the outcome of crossing the BonSilene, with Louis Van Houtte. In attempting to recross this rose for several years, I found it had a tendency to reproduce itself, and I abandoned it. Then came Marion Dingee, out of Caserte, a good dark red rose, for out-door purposes, Mrs. Robert Garrett, out of Sombreuil and Caroline Testout. Thousands of seedlings have been raised, some have produced extra fine flowers, but the habit of growth and the production of flowers for commercial purpose, were not up to requirements. I found that by recrossing some of these seedlings having the least faults, we are more apt to get good roses for commercial purposes. I have one now which has the good points for commercial winter work; it is the second generation of my white Madonna and pink Enchanter and has a stronger growth than either of them, a stiff stem and large pink flowers a shade lighter than the Enchanter. Another one which is the outcome of one of my unnamed seedlings crossed with another unnamed one, which had American Beauty blood on the male side, is now ten months old from seed, and has produced during this winter five beautiful shell-pink flowers as large as the American Beauty, with three and four foot stiff stems and foliage larger and handsomer than that of the Beauty. The future only will tell how satisfactory this is going to prove finally.

There are many other recrossed seedlings in sight, of which I will not speak now. The trouble with most of our winter flowering standard varieties is that the organs are imperfect in ninety-nine cases out of a hundred. This is true of the Bride, Bridesmaid and Golden Gate. In red we have good material to work on, such as Richmond, Cardinal and Liberty. The very best in pink is Caroline Testout. Marie Van Houtte, with its strong healthy growth, makes a good seed bearer, also Etoile de France. As this latter rose proved to be too double, I thought of trying for a less double rose, and so I used pollen from Richmond; the result was two seedlings came up, and bloomed for the first time a month ago. One of them was perfectly single, with a more rapid growth than Richmond, and the other one as double as Etoile de France.

I have several seedlings, where the pollen was taken from three and four different varieties mixed together, and they are the richest color in red of any I have ever raised. In most cases, if you cross a white variety with a pink one, the product will be lighter than the parent pink, and if you cross a pink rose with a red one, it will be darker. For the seed bearer I would use the strongest grower, and for the

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Frau Karl Druschki, the finest white in existence, \$12.00 per 100.
General Jacqueminot, rich velvety crimson.
General Washington, beautiful red, shaded carmine.
John Hopper, beautiful rose pink.
La France, the finest light pink.
Margaret Dickson, white, pale flesh center.
Magna Charta, clear rose pink.
Mme. Gabriel Luizet, light, satiny pink.
Mme. Plantier, white.
Mrs. John Laing, soft pink; most desirable variety.
Paul Neyron, beautiful dark pink.
Prince Camille de Rohan, velvety crimson.
Ulrich Brunner, cherry red.
Prices on H. P. Roses, \$1.25 per 10; \$11.00 per 100; \$100.00 per 1000.

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Maman Cochet, pink. Strong 2-year-old plants, 10 for \$1.50; \$12.00 per 100.
American Beauty, Clothilde Soupert, Kaiserin Augusta Victoria, Caroline Testout, Hermosa. Strong 2-year-old, \$1.50 per 10; \$12.00 per 100.

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Superb crimson red velvet, the center of the bloom vivid cerise red. The flowers are very fragrant and last long. This new variety is the result of a cross between Madame Abel Chateau and Fisher Holmes. Field-grown, strong two-year-old plants, \$2.75 per 10; \$25.00 per 100.

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AMPELOPSIS VEITCHII (Boston Ivy), extra strong imported vines, three-year-old, \$2.00 per doz.; \$15.00 per 100.
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All the above Clematis in extra strong plants, \$3.00 per doz.; \$20.00 per 100.
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MRS. SHARMAN CRAWFORD. Deep rosy pink, the outer petals shaded with pale flesh-color, white at base of petals, and distinct from all other Hybrid Perpetual Roses, \$1.50 per 10; \$12.00 per 100.
PERLE DE ROUGES. A polyantha variety of unusual merit. Color velvety crimson, with reflex of petals bright cerise, \$1.50 per 10; \$12.00 per 100.

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ASSORTED WHITE, PINK, RED, large dormant plants, from open ground, \$1.50 per 10; \$12.00 per 100.

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Large heavy plants, two years old, 3 to 5 feet, \$1.75 per 10; \$15.00 per 100. 4 to 6 feet, \$2.00 per 10; \$18.00 per 100.

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Two-year-old, 3 to 4 branches, bushy, \$1.50 per doz.; \$10.00 per 100.

pollen bearer, the variety having best color.

It takes four or five months for the seed to ripen; when perfectly ripe, bruise the hips or seed balls and put them in sand, where they will soon rot. As soon as you can, wash the seed out, and sow it at once. It will take from three to ten months for some to come up. You will find that not nearly as many will come up as you have sown. The reason of this is that a great many of the pistils are crooked and twisted, consequently the pollen can't be carried down to the ovula. I always take a little pollen of the seed bearer in order to get as much of its habit as possible, as the pollen sometimes dominates over the seed bearer and you lose exactly what you have been trying to preserve—a strong growing habit. Under glass I fertilize any time, summer or winter. Out-doors in summer you have to do this early, as the pollen on a hot day towards noon gets hard and is worthless. If the pistils have a watery appearance on the surface then it is the time to apply the pollen. If the flower which you wish to fertilize is not quite ready to receive the pollen, you can cut the flower with which you wish to pollenize it, put it in a tumbler of water in a cool shady place and it will keep for two or three days.

Mardner of Germany was the first to give the florists some real good things in the way of azaleas. The first crossing of tuberous rooted begonias was made by Zeith & Sons of London in 1869. Much has been written lately about the pollenation of the pear. My first attempt in this line was about fifteen years ago. I crossed the Dutchess with the Seckel, and the Keifer with the Seckel, carefully pollenized them for two days in succession. As the flowers appear in clusters, I pollenized every one on one cluster. A few days afterward I examined them and found that half of them were dropping off. I had noticed at the beginning that some of the stems that carry the flowers were of a much paler green than others. By close examination I found it was the fault of the stem that supplies the flower with nourishment, and that no amount of pollen would set any fruit. I have experimented for a number of years with the same result. It is only shown by this that the fault of not setting fruit is often put on the wrong side. Plants are capable of forming the fleshy part, shell, case or whatever you may call it, that surrounds the germ or the seed, without any pollen. We get seedless apples and pears, provided the organs that come through the stem are perfect and feed them. My advice to young men is to begin early and study plant anatomy, and physiology. Dissect the flowers and fruit, follow up the organs, see where they start from, and where they go to. Without intimate knowledge of these things we are working in a fog, and by studying them, we are able to gather a few pebbles on the shore of horticultural knowledge.

Prof. T. B. Symons, State entomologist, who has charge of the Maryland State exhibit to the Jamestown Exposition, will be located in the States Exhibit Building, section 5, on the exposition grounds from April 15 to December 1.

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ROSES

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Dorothy Perkins, etc., etc., SUITABLE FOR FORCING.

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FINE SPECIMEN ANTHURIUMS Crystallinum, Warocqueanum, Veitchiana, Iamsii, Excelsior, and other choice varieties. All sizes, \$1.00 to \$10.00 each.

Morantas, in 10 Distinct Choice Varieties	\$.50 to \$5.00 each	Medinella Magnifica, Fine Specimens.....	\$1.50 to \$5.00 each
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Crotons, a Superb Collection of 20 Distinct Varieties..	.50 to 1.50 each	Meyenia erecta,	1.00 to 2.00 each
Dracaenas, in 15 of the Choicest Varieties35 to 2.50 each	Fancy Caladiums, in Richest Colors35 to 1.50 each
Pandanus, in 5 Varieties	1.00 to 5.00 each	And Many Other Rare Plants at Low Prices.	

A Full Collection of Greenhouse Vines, Seldom Equalled as to Variety, at from 50c to \$2.00 each. Send for Catalogues.

SIEBRECHT & SON ROSE HILL NURSERIES
NEW ROCHELLE, N. Y.

SEED TRADE

Seedsmen through the middle West report an exceptionally active trade this spring, and say it is a case of physical endurance whether they can stand the hustle and rush they are called on to face from sixteen to eighteen hours out of every twenty-four until the end of the season. It is certainly a great endurance test that many seedsmen and their employees go through every season, but there seems no remedy for it, and "What can't be cured must be endured."

Burnett Galloway of Syracuse, N. Y., has moved into new quarters on Hanover square. The new store is in a much better location for retail business than the old one, and no doubt Mr. Galloway will improve his opportunities to the fullest extent. By the way, the style of the firm is now The Galloway Seed Co.

James Vicks' Sons say that up to April 1st their catalogue trade had been fully twenty-five per cent. larger than last year, and if April does no better than last they will be able to show a substantial increase. From reports obtainable up to this time it is safe to say that this season as a whole will prove to be one of the best the seed trade has ever had, but there will be abundant opportunity to spend some of the surplus at the convention in N. Y. next June.

If information which has been coming to hand during the past ten days is anywhere near correct, the seedsmen are now called to face the most stupendous failure in the onion seed crop of the past twenty-five years. One firm of growers whose crops are grown on Tyler Island has notified their customers that they will be unable to fill any part of their contract orders, as their crops have been completely destroyed; not only the prospective crop of 1907, but all seeds sown for the raising of roots and seed stock for 1908. This firm reports the entire island under water from four to ten feet in depth. In the Santa Clara Valley the losses will be heavy, and just how much will be saved from the general ruin cannot even be surmised. These conditions apply not only to onion seed, but all biennial

crops, and even annuals are beginning to cause grave concern. For instance, no sweet peas have been planted, at least so far as reported, and a general failure of this crop will mean heavy loss to many dealers. The enormous quantities of sweet peas used annually by the seedsmen of the United States may be inferred from the fact that one firm uses between 20,000 and 30,000 lbs, while many use from 5000 to 10,000 lbs.

Referring to biennials, it may be well to call attention to the danger of the California growers not being able to raise roots for their seed crops of 1908.

Just at the present time there is no market on future onion seed, every one having buttoned up tightly on it. No grower or dealer will offer any at any price. Very recently an order for a few hundred pounds was booked, subject to pro rata delivery, at \$2.00 for Red Wethersfield and Ex. Ey. Red Flat, \$2.25 Southport Red and Yellow Globe, \$2.25 for Yellow Globe Danvers, \$2.00 for Prize Taker, Yellow Dutch and White Portugal and \$2.50 for Southport White Globe, \$1.50 for Australian Brown. Even these prices, which are so high as to stagger the average buyer, may seem low next fall. Indeed, one of the largest dealers and best informed seedsmen in the country informed the writer a few days since that he would not be surprised to see onion seed up to \$4.00 and \$5.00 per lb. next fall, and characterized the situation as "desperate in the extreme." Every pound of onion seed carried over will be like money at interest, as it will, no doubt, double in value by next January.

Some anxiety is felt about the prospective Lima bean crop. It is about time those beans were planted, but as the rains have continued with unabated zeal, no planting has been done, and in any event the crop will be late. Fears for the failure of this crop have been reflected in the sharp advance of commercial Limas during the past two weeks. All in all, the situation is by far the most gloomy the seedsmen have ever had to meet, and this is the result in great measure of the absolute concentration of certain crops in one locality.

Something will be said on this subject in HORTICULTURE'S future

"Seed Trade Notes." In meantime, measures have been taken to secure reliable information as to crop conditions not only in California, but in a general way, and this will be furnished to readers of HORTICULTURE from week to week.

CATALOGUES RECEIVED.

The catalogue of Arthur T. Boddington contains one of the most remarkable lists of novelties ever offered. Among them are Meconopsis integrifolia, Primula Kewensis, Lobelia Tennior, Mediola asparagoides myrtifolia, Cheiranthus Kewensis, Coleus thyrsoides, Nigella Miss Jekyl and Trachelium caeruleum. Two of the above mentioned have been illustrated by colored plates issued as supplements to HORTICULTURE. Mr. Boddington also offers as a specialty this season bulbs of Gloriosa superbum which every local florist should grow as a sensational attraction for the public to whom, as a rule, this handsome flower is unknown.

In the annual report of the Connecticut Agricultural College it is stated that 1,180 students have been connected with the college for longer or shorter periods. President Stimson summarizes the four greatest needs as: an annual appropriation of \$25,000; \$2,500 for sewage disposal plant; \$8,500 for purchase of Valentine farm; \$50,000 to construct a horticultural building and greenhouses.

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OF CASH
by advertising it in HORTICULTURE.

VALLEY CLUMPS
\$15.00 100

Gladiolus Fine MXD
\$3.00 100

Tuberoses XLCR
\$8.00 1000

W. Elliott & Sons

201 Fulton St.
N. Y.



STATEMENT OF PLANT IMPORTS.

There were entered at the port of New York during the week from April 2 to April 8, inclusive, the following plants, etc.:

From Holland: C. C. Abel & Co., 53 cs. bulbs; H. F. Darrow, 3 cs. plants, 44 pgs. plants; Elliott Nursery Co., 3 cs. trees; Wm. Elliott & Sons, 15 cs. plants; R. F. Lang, 19 cs. plants; McHutchison & Co., 101 cs. do., 25 bales plants; P. Ouwerkerk, 61 cs. trees; C. B. Richard & Co., 909 cs. plants, 12 cs. trees; August Rolker & Sons, 18 cs. plants; Stumpp & Walter Co., 5 pgs. do.; H. A. Dreer, 1 cs. do.; Sundry Forwarders, 118 cs. plants, 371 pgs. plants.

From Belgium: Sundry Forwarders, 4 cs. plants, 35 pgs. plants, 3 cs. bulbs, 74 tubs laurel trees.

From France: H. F. Darrow, 18 pgs. seed; McHutchison & Co., 5 pgs. plants; Sundry Forwarders, 29 cs. plants.

Via Southampton: H. F. Darrow, 2 cs. trees; J. Guille, 1 crate plants; O. G. Hempstead & Sons, 1 cs. trees; Aug. Rolker & Sons, 6 cs. plants; H. Waterer, 5 cs. trees; Sundry Forwarders, 68 cs. trees, 2 cases plants, 1 cs. shrubs, 2 cs. roots.

Via Liverpool: Sundry Forwarders, 5 cs. trees, 1 bundle trees.

From Germany: H. H. Homfeck, 1 cs. plants; T. L. Schramm, 2 cs. trees.

Peonies, Tuberous Rooted Begonias

ALL GARDEN SEEDS AND ROOTS

JOHNSON SEED COMPANY
217 Market St., PHILA., PA.

DAHLIAS

A most complete list in our 1907 catalogue of Seeds, Bulbs, Plants mailed free on application.

H. E. FISKE SEED CO.
Faneuil Hall Square, Boston

Comet Tomato

Those who force tomatoes should give "Comet" a trial. This variety has been the talk of gardeners around Boston the past season. Those who have seen it growing declare there's nothing to compare with it.

Seed, \$5.00 per oz. Trade packet \$1.00.

WILLIAM SIM, Clifftondale, Mass.

Cauliflower Seed

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

C. C. MORSE & CO.

171-173 Clay St., SAN FRANCISCO, CAL.

The Largest Seed Growers
on the Pacific Coast

Summer Flowering Bulbs

CANNAS

Strong roots with two and three eyes at a special price to clear.

Alphonse Bouvier

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Chicago

Egandale

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Italia

Mme. Crozy

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and other sorts. Any of the above,

\$2.50 per 100; per 1000, \$20.00.

DAHLIAS

We have a large assortment of choice named sorts as **Double, Cactus, Single** and **Fancy** varieties. Strong clumps, \$1.00 per doz.; per 100, \$8.00.

CLADIOLUS

Strong bulbs which will bloom this season.

	100	1000
Scarlet and Crimson	\$1.00	\$9.00
Pink and Variegated	1.25	12.00
Striped	2.00	19.00
White and Light	1.75	15.00
Yellow	2.50	24.00
Childsii Mixed	2.00	18.00
Groff's Hybrids Mixed	1.50	14.00
Choicest Mixed	1.25	10.00
Fine Mixed	1.00	8.00

WRITE FOR A COPY OF OUR WHOLESALE PRICE LIST,
ALSO GENERAL SEED CATALOGUE.

HENRY F. MICHELL CO. 1018 Market St.
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Wholesale Catalogue

for florists and market gardeners is now ready and will be sent free to all who ask for it.

NEW CROP flower seeds are mostly all on hand now and we are prepared to fill orders promptly.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere. Cold Storage Lily of the Valley Pips. Best possible grade, 1000 in case @ \$12.00 per 1000.

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High Grade Seeds for Market Gardener, Florist and Farmer

Catalogues Free

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47-54 NO. MARKET ST., BOSTON, MASS

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for the most critical
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PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a large supply of exceptionally fine quality.

For the Lawn,

The Greenhouse,

For the Herbaceous Garden,

For the Flower Garden,

For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,
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Grey's Highest Grade of Tested Seeds

Send for Catalogue

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RICKARDS BROS.

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IN ALL SIZES

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JULIUS ROEHRS COMPANY, Rutherford, N. J.

—ORCHIDS—

Some of the varieties we shall import this spring: Cattleyas Trianae, Labiata, Mossiae, Mendelii, Speciosissima, Gigas, Schroederæ; Dendrobiums Nobile, Wardianum, Phalaenopsis; Vandas Coerulea, Kimballiana; Oncidium Varicosum; Laelias Anceps, Autumnalis, Albida. Write for prices on above.

GARRILLO & BALDWIN, SEGAUCUS, N. J.

ORCHIDS Importations, 1907

Save money and get our quotations on Cattleya labiata, Trianae, Percivaliana, Mossiae, Mendelii, Schroederæ.

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Largest Orchid growers and importers in U. S.
RUTHERFORD, N. J.

Orchids for Spring Delivery

Cattleyas, Laelias, Oncidiums, etc.

Write for price list. Finest quality of Peat and Moss and Orchid Baskets on the market.

Give me a trial order.

Joseph A. Manda

191 Valley Road, West Orange, N. J.

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Arrived in exceptionally fine condition the following ORCHIDS: LAELIA PURPURATA, CATTLEYA HARRISONIAE, C. INTERMEDIA, C. TRIANAÆ, C. LEOPOLDII and a large shipment of CATTLEYA LABIATA and DENDROBIUM WARDIANUM. Write for prices.

LAGER & HURRELL, SUMMIT, N. J.

ORCHIDS NOW READY FOR IMMEDIATE DELIVERY

Cattleya Trianae, C. Trianae, var. Papayan, C. Schroederæ, C. Sanderiana. To arrive, Cattleya gigas, C. Aurea, C. Mendelii. Call for quotations from us also for choicest varieties of Odontoglossum, Piluma, Cypripedium, Phalaenopsis, Dendrobium and Vanda. Extremely rare Vanda Sanderiana for July delivery. A. HELD, 11-19 William St., NEW YORK

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Plumosas, Robustus and Sprengerii

Three inch stock ready for fours. Send ten cents for samples and prices.

ALBERT M. HERR, Lancaster, Pa.



Cypripedium Reginae

Showy Ladies' Slipper

The rarest and most beautiful of our Hardy Orchids.

By Express or Mail prepaid

	Each	Per 100
1-2 crowns (strong clumps),	55c	\$4.50
3-4 " " " " " " " " " "	75c	5.50

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have acquired their distinctiveness and charm through proper use of our exquisite NATIVE AMERICAN PLANTS.

In no other way may the harmony and unity of American landscape be preserved and enhanced, while

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however choice, results in harsh effects and clashes of color and form,—in other words, "plants out of place."

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Is the home of the gorgeous and rare Azaleas of the Carolina mountains.

Kelsey's Hardy American Plant catalog the finest published is free.

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We have a small surplus of

Lilium Auratum, 8 to 9 in. 130 in a case. Iris Kaempferi, cases of 50 strong clumps

" " 9 to 11 in. 100 in a case. of 50 best varieties. \$6.00 a case.

Herbaceous Paeonies, cases of 84 strong clumps of the 12 best Japanese varieties, 7 clumps each variety. \$15.00 a case.

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Most Complete Horticultural Establishment in America

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WHITMANI

2 1-4 inch, \$10 per 100

BOSTONS

2 1-4 inch, \$3.00 per 100

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Giant Pansy Plants

Strong, Bushy, Transplanted. Fine, healthy stock. \$9 per 1000. Cash with order.

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	From 2 in. Pots	100	1000
Hardy Chrysanthemums, Large-flow- ering or Aster.....		\$3.00	\$25.00
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Lemon Verbenas, (Aloysia citriodora)	2.00	18.00	
Verbenas, white, scarlet, purple and striped.....	2.00	17.50	
Petunias, Dreer's Single.....	2.00	17.50	
Petunias, Double, fringed.....	3.00	25.00	
Salvias.....	2.00	17.50	

And other Bedding Stock. Send for List.

Cash with Order, Please.

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Growers of Plants for the Trade. WHITE MARSH, MD.

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Our selection \$18.00 per 1000, composed of the following varieties all to name: S. A. Nutt, Poitevine, La Favorite, Perkins, Brett, Viaud, Castellane, Doyle and several others out of a 1-4 in. pot, with or without soil.

	2 1-4 in pot	per 100	Rooted Cuttings	per 100
Fuchsias in variety,		\$3.00		\$1.00
Heliotrope,		2.50		1.00
Sweet Alyssum,		2.00		1.00
Lobelia,		2.00		1.00
Ageratum,		1.50		.50
Rose Geranium,		2.00 fine plants		
Coleus in variety,				.60
Coleus Golden Bedder,				.60

Cash must accompany order.

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GERANIUMS

	From 2 1/4 in. Pots	Per 100
S. A. Nutt.....		\$3.00
John Doyle.....		2.50
MIXED containing S. A. Nutt, John Doyle, Poitevine, Dbl. Gen. Grant and White.....		2.25
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Ageratum, strong, bushy plants.....		2.50
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Cash with Order, Please

R. L. GOINSALVOS, Waltham, Mass.

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AZALEAS in All Colors

From 50c. to \$5.00

Also a fine lot of Palms in all sizes, such as Kentias, Arecas, Latanias, Phoenix and Cocos. Pandanus Veitchii and utilis, Crotons, Dracaenas, Nepenthes, Aralias, Araucarias, Aspidistras, Ferns suitable for dishes, in leading varieties. Cibotium Schiedel from \$1.00 to \$3.00 each.

Wholesale Price List on application.

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NEW DOUBLE PETUNIA THE QUEEN

a wonderful bloomer; flowers from four to four and one-half inches in diameter; white mingled with purple, nicely fringed; an early bloomer; fine seller for Decoration Day; planted outdoors will bloom all summer. Strong plants, ready Feb. 15, \$1.50 per doz.; \$10.00 per 100; \$30.00 per 1000. Rooted Cuttings, \$5.00 per 100; they will make fine 4 in. plants in full bloom by Decoration Day.

VARIEGATED VINCAS, 4 in. pots, strong plants, \$8.00 per hundred.

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RHODODENDRONS—A grand lot of well budded plants of perfectly hardy varieties.

16 to 18 inches high, 73 cts. each;	\$8.00 per dozen;	\$65.00 per 100
20 to 24 " " " \$1.25 " "	12.50 " "	100.00 " 100
30 to 36 " " " 2.50 " "	30.00 " "	225.00 " 100

BOXWOOD EDGING—Very heavy bushy stock, 5 to 6 inches high, the finest we have ever handled, \$5.00 per 100; \$45.00 per 1000; special prices for large quantities.

HYDRANGEA PANICULATA GRANDIFLORA—Extra heavy bushy plants, 24 to 30 inches high, \$1.25 per dozen; \$10.00 per 100.

CLEMATIS PANICULATA—Extra heavy two year old roots, \$1.25 per dozen; \$8.00 per 100; \$70.00 per 1000. Strong one year old roots 75 cts. per dozen; \$5.00 per 100; \$40.00 per 1000.

CLEMATIS, Large Flowered Hybrid Varieties, such as Jackmani, Henryi, Duchess of Edinburgh, etc., in extra heavy two year old stock, \$3.00 per dozen; \$20.00 per 100.

AMPELOPSIS VEITCHII—Strong two year old plants \$1.50 per dozen; \$10.00 per 100; three year old plants \$2.00 per dozen; \$15 per 100.

HARDY ENGLISH IVIES—Strong plants in four inch pots, about 3 feet high, \$1.25 per dozen; \$10.00 per 100.

HARDY PERENNIAL PHLOX—All the popular standard varieties in strong one year old field grown plants, now in three inch pots, far superior to winter propagated stock as usually sent out. 75 cts. per dozen; \$5.00 per 100; \$40.00 per 1000.

HARDY PERENNIALS—The greatest assortment and largest stock in the country; write to us for anything you require in this line.

STRONG TWO YEAR OLD ROSES—We make a specialty of strong two year old Roses, field grown stock, which during the winter months has been potted up into 5 and 6 inch pots, stored in cold houses and is now breaking into growth nicely, just the kind of stock to sell to your retail customers for immediate planting.

For a complete list of seasonable stock
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The above prices are only for Florists or those engaged in the trade.

PLANTS FOR SPRING TRADE

Dracaena Terminalis, finely colored, 4 inch pots, - -	\$4.00 per doz.
" " " " 5 inch pots, - -	5.00 "
Cocos Weddelliana, fine plants, 3 inch pots, - -	2.00 "
Kentia Belmoreana, " 24 to 28 inches high, - -	9.00 "
" " " " 18 to 20 " " - -	7.50 "
Araucaria Excelsa, " 15 to 18 " " 4 tiers, - -	7.50 "
" " " " 20 to 24 " " 5 tiers, - -	10.00 "
Pandanus Utilis, " 5 inch pots, - -	4.50 "

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35 and 37 Cortlandt Street

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EAST BRIDGEWATER DAHLIA GARDENS

has a Large Stock On Hand Yet.
Send for Prices.

J. K. Alexander, East Bridgewater, Mass.

DAHLIAS.

Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

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Successors to L. K. Peacock, Inc.

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**ROSES
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GARDENIAS

**CARNATIONS
VALLEY**

AND ALL OTHER CHOICE FLOWERS

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CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. **Boston, Mass.**
and 9 Chapman Place,

See our Greens Advertisement on page 507.

L. D. Telephone, Main 2618.

POT CULTURE OF CARNATIONS.

(Read Before the Morris Co. Gardeners' and Florists' Society, Madison, N. J., Mar. 13, 1907, by Wm. Duckham.)

What I can say regarding the culture of carnations must necessarily be short, for the reason that I am requested to speak on the method of pot culture only. I do not wish it to be understood that because I have followed pot culture for the past eleven years that it is the best, or that it is better than outside or field culture, but suffice it to say, I have had fair results, which undoubtedly has led me to continue the practice. Our cuttings are taken at the usual time, which is as soon as they can be procured after the middle of January, rooted in the usual way, and as soon as rooted, are then potted into 2 1-2 in. pots, grown along, but not forced, until the pots are well filled with roots. They are then re-potted into 4 to 4 1-2 in. pots. Our plants are just being shifted into the above sizes, in which they will remain until time to plant into the bench. I endeavor to have all the plants pinched once before potting into the larger pots, and that the plant is again active and starting a number of growths. Careful watering and the usual requirements are all that is necessary now, until final quarters are reached.

About the first week in June our plants have usually been planted, at which time the pots have become filled with roots, and it becomes a necessity to re-pot or plant. Inasmuch as the usual greenhouse bench will not hold any larger pot than 4 1-2 in., planting is in order. I would prefer to plant earlier than the date given, rather than allow the plants to suffer. After planting, great care must be used for a week or two regarding watering. This is most essential, for with so much soil, if watered too freely the whole is likely to get soured. After the plants get hold of the new soil plenty of water must necessarily be given, together with frequent syringing, which will encourage growth, and also help to keep down red spider, which must be looked out for at all times.

Now, what are the advantages of pot culture over field or outside? In the first place, perhaps I might cite that last year out of 700 plants, all that were lost were two plants from stem rot. On the other hand, plants from

the field would invariably show a greater loss than this, especially in wet seasons. In fact, I have seen big losses, and undoubtedly you have seen the same, but never so with plants grown inside.

I might claim, too, that indoor-grown plants produce larger flowers with longer stems, at an earlier date in the fall, and taking the average through, I believe this applies for the whole winter. As stated before, I do not wish to infer that my method herein stated is the better way. That would be absurd on my part, for we have only to look around at the exhibits here tonight and perhaps I would be safe in saying there's not one of the flowers here but what was produced by the field or outside culture, with the possible exception of the few that I have brought. With a good house, good soil and a little common sense, excellent carnations can be produced from either inside or outside culture.

DAHLIAS.

Green Plants vs. Field Roots.

I find that some of the small growers who only devote a small part of their time to the growth and culture of the dahlia, are trying to make the general public believe that the green plant is much better than a strong field-root would be to grow, but this is not so in this country, as we have so many insect-pests and cut worms to contend with. If a green plant is cut off it is lost entirely, but it is not so with a field-grown tuber, for if the grub or cut worm cuts the sprout off of a hardy field tuber it only puts it back a week or so and when it grows again it will have two sprouts in place of one. In some foreign countries where they recommend and sell mostly green plants they are not pested with these insects. In regard to the green plants flowering, it is impossible for them to flower any more freely than a hardy divided field tuber, if the tuber is properly planted. If six inches deep and laid horizontally and kept thoroughly cultivated the tuber will flower as freely as any green plant ever produced and the clumps from a tuber will winter much easier than those from a cutting. The cutting is only fit for a commercial grower who wishes to work up a stock quickly, and can afford to lose a certain per cent. of them, in order to gain his stock. But this is not wise for amateurs for if any amateur pays for a cutting and loses it, it is a total loss to him. The commercial

dealer figures on losing a certain per cent. of all cutting stock. Cuttings can be raised for one-fourth the cost of strong field tubers and are sold by most dealers for the same price as strong tubers. This is the principal reason why some of the small dealers are trying to force the cutting, finding there is a greater profit in selling this class of stock. I have been a commercial grower for over twelve years, and have experimented with all methods of growing the dahlia, and I find that the tuber gives the greatest satisfaction.

J. K. ALEXANDER.

East Bridgewater, Mass.

OBITUARY.

John P. Murphy of Saco, Me., died on April 1, aged 67 years.

F. L. Temple, a nurseryman well known in Massachusetts and Maine, died on March 30 at his home in Hampden, Me.

C. A. Reed, for the past five years in the florist business in Brockton, Mass., died on March 25, at the age of 40. A widow and two children survive him.

Quincy L. Reed, 85 years of age, member of the state board of agriculture, died at his home in South Weymouth, Mass., on April 9. One son and two daughters survive him.

Patrick Cavanaugh and his wife were asphyxiated in their room in Brooklyn, N. Y., on April 6. He designed and laid out the grounds for the estate of William Rockefeller in the Adirondacks and also the country estate of Timothy Woodruff.

Henry McGrady, of Newton Centre, Mass., while digging a trench for a water pipe in the rear of his house on April 6, was buried by the sand which caved in from the sides. His position was accidentally discovered by his sister, Nellie, who, with the assistance of two neighbors, dug through and rescued him. He was breathing when taken out, but soon died. Mr. McGrady was 37 years old, and had been associated in the florist business with his father for many years.

George Leadley of Detroit, who was burned out just a week before Easter, could not locate himself for the holiday trade. It is his intention not to go in business again until fall.

News Notes

The Morgan Floral Co. has leased the houses of W. B. Conover, Henderson, Ky.

Benjamin Carpenter will soon open a flower and seed store on Water street, Wilkesbarre, Pa.

Holm & Olsen of St. Paul, Minn., gave a reception in their new store on the evening of March 28, and an orchestra furnished music.

F. E. Conine has purchased a large farm which will be devoted to the interests of the F. E. Conine Nursery Company's growing business at Stratford, Conn.

The florists of Fort Wayne, Ind., were serious sufferers by the hailstorm of March 27, Miss Flick, William Meyer, A. J. Lantineer, S. Bash & Co., being among those reported to have lost considerable glass.

Thomas A. Norris and Martin Dolan, of Brockton, Mass., have purchased the Lapham farm, in Bridgewater, which has until recently been in the hands of the Shady Hill Nursery Co. The estate includes 100 acres, and is well stocked with trees and shrubs.

In the Sheriff Street market, Cleveland, O., the twelfth Easter flower show opened on March 29. Among the exhibitors were Mrs. A. Schmidt, L. Utzinger, John Mollenkopf, Fred Burger, R. Gamble, G. M. Nauman and C. Aul. Three cash prizes were offered for the best display. Johnston's orchestra furnished music day and evening.

The Fifth Avenue Floral Co., Columbus, O., have recently purchased a large tract of land on Seventh avenue. Their plans include the erection of additional greenhouses and improvements in their present plant. The newly elected officers are C. K. Siebert, president; T. B. Siebert, general manager; G. H. Woodrow, secretary and treasurer.

BUSINESS CHANGES.

Miss H. F. Patten has purchased the business of C. B. Flick, Toledo, O.

The Kennicott Bros. Co., Chicago, have moved to 48-50 Wabash avenue.

M. F. Monohan has leased the Phelps greenhouse at Blackinton, Mass.

David Lumsden of Waverley, Mass., has resigned his position with the Wm. W. Edgar Co. and will establish himself in the near future in the wholesale line, making palms, ferns, and decorative plants leading specialties. The new establishment will be in the close vicinity of Boston.

William J. Smyth FLORIST

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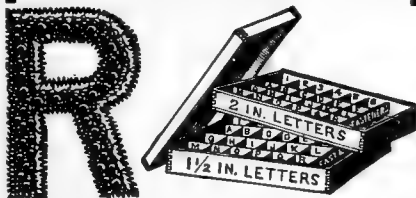
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Manufacturers of FLORISTS' LETTERS



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Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

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FANCY VALLEY \$3.00 and \$4.00 per 100

Extra Choice **SWEET PEAS** \$1.00 and \$1.50 per 100

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Store closes at 8 p. m.

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CARNATIONS**

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MANUFACTURERS
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In Quantity, Strings or Bunches

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Beauties. Carnations. Violets

Superb Illustrated Supply Catalogue just out. Send for one.

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	April 1		April 9		April 9		April 11	
ROSES								
Am. Beauty, Fan. & Sp.	35.00	to 40.00	25.00	to 30.00	25.00	to 30.00	20.00	to 25.00
“ Extra.....	20.00	to 25.00	18.00	to 20.00	20.00	to 25.00	15.00	to 20.00
“ No. 1.....	12.00	to 15.00	8.00	to 12.00	10.00	to 15.00	8.00	to 10.00
“ Lower grades.....	6.00	to 8.00	4.00	to 6.00	5.00	to 6.00	2.00	to 6.00
Bride, Maid, Golden Gate, F. & S.	4.00	to 6.00	5.00	to 6.00	10.00	to 15.00	6.00	to 8.00
“ “ “ Extra.....	3.00	to 4.00	3.00	to 4.00	8.00	to 10.00	3.00	to 4.00
“ “ “ No. 1 & lw. gr.	1.00	to 2.00	1.00	to 3.00	3.00	to 6.00	1.00	to 2.00
Liberty, Richmond, Fan. & Sp.	4.00	to 6.00	.....	to 6.00	10.00	to 15.00	8.00	to 12.00
“ “ “ Lower grades.....	2.00	to 3.00	3.00	to 4.00	5.00	to 8.00	2.00	to 6.00
Chatenay, Morgan, Fan. & Sp.	4.00	to 6.00	5.00	to 6.00	10.00	to 12.00	4.00	to 6.00
“ “ “ Lower grades.....	2.00	to 3.00	3.00	to 4.00	2.00	to 8.00	1.00	to 3.00
Killarney, Wellesley, Fan. & Sp.	4.00	to 8.00	6.00	to 8.00	6.00	to 10.00	6.00	to 8.00
“ “ “ Lower grades.....	2.00	to 3.00	.....	to 3.00	3.00	to 8.00	1.00	to 4.00
CARNATIONS								
Fancy and Novelties.....	.....	to 3.00	2.50	to 4.00	3.00	to 4.00	1.50	to 2.50
Ordinary.....	1.50	to 2.00	1.00	to 1.50	1.00	to 2.00	.75	to 1.00
MISCELLANEOUS								
Violets, Double.....	.....	to 1.00	.50	to .75	.40	to .50	.25	to .75
“ Single.....	.50	to .75	.....	to 1.00	.....	to 1.00	.25	to .75
Cattleyas.....	50.00	to 75.00	.....	to 75.00	.....	to 75.00	35.00	to 50.00
Sweet Peas.....	.75	to 1.00	.75	to 1.00	.75	to 1.00	.50	to 1.00
Tulips, Daffodils.....	2.00	to 4.00	3.00	to 4.00	.....	to 2.00	.40	to 1.00
Lilies.....	10.00	to 12.00	8.00	to 10.00	12.00	to 15.00	6.00	to 8.00
Lily of the Valley.....	2.00	to 4.00	3.00	to 4.00	2.00	to 4.00	.50	to 3.00
Gardenias.....	50.00	to 60.00	.....	to 60.00	.....	to 60.00	.....	to 10.00
Mignonette.....	4.00	to 8.00	1.00	to 2.00	15.00	to 30.00	1.00	to 2.00
Lilacs (100 bunches).....	25.00	to 50.00	.....	to 50.00	.....	to 50.00	50.00	to 75.00
Adiantum.....	.75	to 1.00	.....	to 1.50	1.00	to 1.50	1.00	to 1.50
Smilax.....	20.00	to 25.00	.....	to 20.00	12.50	to 25.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	to 50.00	35.00	to 50.00	to 50.00
“ “ & Spreng. (100 bchs.)	35.00	to 50.00	20.00	to 30.00	50.00	to 50.00	35.00	to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON If anything, the market is worse than it was last week. There is certainly no improvement apparent. Although the very inclement weather has shortened up the supply of flowers generally the markets have gained nothing as conditions are such that the street men can do nothing to unload the surplus, as they would if the crowds were out. Out-of-town trade has held up much better than the city trade and has proved a valuable asset to the shippers who, otherwise, would lose the larger part of their stock. Quality holds good on about everything, especially roses which have never been better at this season of the year. Violets have improved and taken a second lease on life, under the wintry weather. Carnations and lilies are abundant, with the latter badly congested.

BUFFALO The after-Easter deluge began on Monday last and continued throughout the week, the weather being much the cause. Up to Friday there was an oversupply on stock such as has not been seen in many days. Lilies and callas were in heavy supply with no outlook. Carnations are being carried along from day to day, but the outlet did not come until Saturday, when bargains were in order and a good lot of carried-over stock was cleaned up. Roses were also plentiful, the quantity being good, but they took the same course as the rest. Lily of the valley, peas and other stock suffered also. Violets sold considerably better, the quality being good. This week the trade has started in much better and prospects look bright for good business.

COLUMBUS The past week we have been feeling the usual after effects of a great Easter business. Violets are at last being received in good quality, but are selling very low. Roses are fine in quality. Richmond is having and has had right along a great run. Carnations are better this week than for a long time. We are getting very much disgusted with the large amount of "pickled" stock that many try to work upon us. Bulb stock is now drawing to an end, and no one is sorry, as such enormous quantities of it as we have had lately are very hard to handle with satisfaction to either grower or customer. Considering everything, trade is in a good healthy condition, and all are well satisfied.

DETROIT To size the Easter situation up it was much beyond all expectations. Everybody was exhausted by Monday morning and many closed their shops at noon. The most elaborate preparations for delivering goods were in most cases found to be below the requirements. The grower probably did not fare as well as the retailer. The

warm weather just previous to Easter brought the stock on too fast and lilies were very soft and easily spoiled; bulbous stock was also over plentiful. A heavy crop of roses and carnations all around falling due for Easter made matters appear unpropitious for a while. To the surprise of all everything cleaned up well. There being plenty of stock on hand every retailer procured a good supply and, although prices kept up well, the consumer meeting a large display everywhere felt more inclined to buy liberally. Plants and cut flowers and especially fancy baskets went very well. At the present supply is above the demand although there is no real stagnation in the business. Something doing all around.

INDIANAPOLIS The volume of Easter business exceeded anything in the previous history of the Indianapolis market but the aggregate money value of sales for the week does not make a larger if as large a sum as in 1906. The Easter weather was all that could be desired but the warm weather for the two preceding weeks brought out all the bulb flowers too soon, some growers losing two-thirds of their stock. There was abundance of everything in the cut flower line except lilies and violets. Violets were of poor quality and limited quantity. Lilies ran very low; the greater part of the trade was unable to get them. The best buyers chose flowering plants in preference to cut flowers particularly the higher grades. There was a noticeable increase in plant sales this year although an immense amount of cut stock was handled Saturday and Sunday.

NEW YORK Conditions since Easter have been very perplexing to the wholesale dealers. The general demand has been far below normal, while the shipments from the growing districts have been enormous, and values have been battered down to the lowest peg by the dealers who are in full control of the situation for the time being. Lilies that failed to reach the goal for Easter are being received in huge quantities, most of them bearing evidence of the pace they were put to in the futile endeavor to get them out on time. Roses seem to be doing their best to average up on the short crops that prevailed throughout the winter. All bulbous material is badly congested, none more so than lily of the valley, which is a burden on the hands of all the wholesalers. Retail trade is very dull, and April has, thus far, failed to come up to its reputation as a profitable month. With a lively demand at the present time, the retailers could make some money with the opportunity for buying material so cheaply.

PHILADELPHIA The market on cut flowers was very slow last week. There was an extra demand for sweet peas, with supply ample. Roses and carnations 'steen times as many as wanted. Lily of the valley sold a little better, but still long. Cut lilies sold fairly well; arrivals and enquiries about equal. There are a few good double violets coming in yet, but the singles are nearly over. In orchids, there is little of consequence except a few good cattleyas which find ready takers. Far too many daffodils and poeticus from the South. A new item is the golden Spanish iris. On the whole, however, there were but few bright glints to relieve the gloom of the situation. The April weddings that were counted on to make things hum came along all right, but they were entirely inadequate to prevent the general slump.

TWIN CITIES Trade since Easter week has been exceptionally quiet; even the larger stores have done practically nothing. The opening of the new city Auditorium in St. Paul created some demand, but it seemed to run more on violets than anything else. Stock is plentiful, especially roses, which are quoted very low. Carnations are in abundance, but for some reason the price has not declined to any extent. Bulb stock is on the wane. Violets are also about through, and those that are now offered are very light colored. About every dealer has on hand a number of Easter plants; in one place from 100 to 150 fine lily plants were carried over; there are also some fine specimen azalea plants, but all other Easter stock sold to good advantage.

NEWPORT'S EASTER MARKET.

Easter business was on the whole very satisfactory. Of course it would have been much more so if lilies had been in proper condition in greater numbers, but even as it was I do not think any grumbling is at all justifiable in view of all the facts. In nearly all the stores there were many lilies that might be supposed would remain there for the prolonged decoration of the stores, but they didn't; every one of them found a purchaser because better could not be had at any price. Azaleas, deutzias and spireas sold fairly well at usual prices. Genistas in 8-in. pots were in good demand. Hydrangeas, H. P. roses, and acacias sold well at good prices. Baby Ramblers and Crimson Ramblers were favorites in about equal degree. Dorothy Perkins was picked up quickly. White hyacinths took the place of lilies when the latter disappeared from view. Cut flowers were in such demand that on Saturday evening there was nothing in that line left.

D. M.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Apr. 6 1907	First Half of Week beginning Apr. 8 1907		Last Half of Week ending Apr. 6 1907	First Half of Week beginning Apr. 8 1907
Roses			Carnations, Ordinary .....	.50 to 1.00	.50 to 1.00
Am. Beauty, fan and sp.	12.00 to 20.00	12.00 to 20.00	Violets, double..	.20 to .40	.20 to .40
" extra.....	8.00 to 12.00	8.00 to 12.00	" single .....	.....	.....
" No. 1.....	5.00 to 8.00	5.00 to 8.00	Cattleyas	35.00 to 40.00	35.00 to 40.00
" Lower grades.....	1.00 to 3.00	1.00 to 3.00	Sweet Peas.....	.50 to .75	.50 to .75
Bride, 'Maid, Golden Gate, fan & sp	5.00 to 6.00	5.00 to 6.00	Tulips, Daffodils .....	.50 to 1.00	.50 to 1.00
" " " Extra.....	3.00 to 5.00	3.00 to 5.00	Lilies	3.00 to 4.00	3.00 to 4.00
" " " No. 1 & lw. gr.	.50 to 2.00	.50 to 2.00	Lily of the Valley.....	1.50 to 2.00	1.50 to 2.00
Liberty, Richmond, fancy & special	6.00 to 12.00	6.00 to 12.00	Gardenias	6.00 to 12.00	6.00 to 12.00
" lower grades ..	1.00 to 4.00	1.00 to 4.00	Mignonette.....	1.00 to 3.00	1.00 to 3.00
Chatenay, Morgan, fancy and spec.	5.00 to 6.00	5.00 to 6.00	Lilacs (too bunches).....	25.00 to 50.00	25.00 to 50.00
" lower grades ..	.50 to 2.00	.50 to 2.00	Adiantum .....	.75 to 1.00	.75 to 1.00
Killarney, Wellesley, fan, and spec.	5.00 to 8.00	5.00 to 8.00	Smilax.....	15.00 to 20.00	15.00 to 20.00
" lower grades.....	1.50 to 3.00	1.50 to 3.00	Asparagus Plumosus, strings.....	20.00 to 35.00	20.00 to 35.00
Carnations, Fancy and Novelties..	1.50 to 2.00	1.50 to 2.00	" " & Spren. (too bchs.)	15.00 to 30.00	15.00 to 30.00

ORCHIDS AT ALL SEASONS**WM. STUART ALLEN CO.**

Commission Merchants in Cut Flowers

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Telephone 356 Madison Square

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GRADE OF **VALLEY** ALWAYS
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CARNEDIAS, DAISIES, ROSES AND CARNATIONS

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Furnish best stock at fair prices all the year round Send for quotations on fall orders

Tel. 798.799 Madison Sq.

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Alexander J. Guttman
THE WHOLESALE FLORIST OF NEW YORK

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EXTRA FINE FANCY and DAGGER FERNS \$2.00 per 1000

DISCOUNT ON LARGER ORDERS

GREEN and BRONZE GALAX, \$1.25 per 1000, LEUCOTHOE SPRAYS, \$1.00 per 100, \$7.50 per 1000
\$7.50 Case of 10,000

Let us have your standing order for Fern.

BOXWOOD 20c lb., 50 lbs. \$8.50

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Send for Our Weekly Price List on Cut Flowers

The Reliable Commission House

Richmond Roses and Rich Flowers
of all varieties

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ALFRED H. LANGJAHR

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J. B. Murdoch & Co.

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Long Distance Phone 1435 Court.

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122 West 25th St., New York

Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Glassware Decorative Greens and Florists' Requisites.

NEWS NOTES.

Bertha Cohn of 17 E. 59th street, New York, has filed a petition in bankruptcy. Liabilities, \$4,180; assets, \$20.

Mrs. Josephine Joslyn, 2603 Broadway, New York, has gone into bankruptcy with liabilities \$2,512, and assets \$517. New York Cut Flower Company, \$371, is one of the principal creditors.

J. K. Allen is preparing to erect a large refrigerator for the reception of flowers in the basement of his establishment at 106 West 28th street, New York. The refrigerator will be 16 1-2 feet long and 6 1-2 feet deep.

Walter Taepke, who manages his father's store on Gratiot avenue, is a representative of the younger generation of Detroit florists who are building up a good business on the one-price principle. Many an old hand at the business may well take time to consider the opportunities lost by cutting prices as they witness the success of the newer methods.

FIRE RECORD.

Slight fire in greenhouse of Stephen Murphy, Middleboro, Mass., on March 28. But little damage done.

Simon Lachman, 16 Wilcox street, Detroit, Mich., suffered heavy loss from fire on the night of March 27. Cause unknown.

A blaze started in the boiler room of the greenhouse owned by Hermann Hoffman, Irvington, N. J., on March 30, but was soon extinguished with a loss of not over \$100.

Best Flowers

in the Boston Market

N. F. MCCARTHY & CO.

84 HAWLEY STREET

BOSTON, MASS.

SEND FOR PRICES

Headquarters in Western New York

FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.

BUFFALO, N. Y.

Give us a trial. We can please you.

NEW CROP BRONZE AND GREEN GALAX

Case of 10,000, \$7.50.

Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

\$2.00 per 1000.



Best Southern Smilax, \$3.50 and \$7 per case.
Headquarters for all FLORISTS' SUPPLIES. Wire Designs,
Cut Wire, Letters, Immortelles, Cypas Leaves, Wheat
Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 15 Province St.,
9 Chapman Pl., Boston, Mass. L. D. Telephone, Main, 2617-2618.



WHOLESALE FLOWER MARKETS. PER 100. TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	April 8		April 9		April 8		April 8	
ROSES								
Am. Beauty, Fan, and Sp.....	30.00	to 40.00	20.00	to 25.00	25.00	to 35.00	20.00	to 25.00
" Extra	20.00	to 30.00	17.00	to 20.00	20.00	to 25.00	12.50	to 15.00
" No. 1.....	12.00	to 20.00	5.00	to 10.00	15.00	to 20.00	6.00	to 8.00
" Lower grades.....	6.00	to 10.00	2.00	to 3.00	3.00	to 15.00	3.00	to 4.00
Bride, 'Maid, Golden Gate, F. & S.	8.00	to 10.00	6.00	to 8.00	8.00	to 10.00	6.00	to 8.00
" " " Extra....	4.00	to 6.00	5.00	to 6.00	6.00	to 8.00	5.00	to 6.00
" " " No. 1 & lw. gr.	3.00	to 4.00	3.00	to 5.00	3.00	to 6.00	3.00	to 4.00
Liberty, Richmond, Fan, & Sp.....	8.00	to 10.00	6.00	to 8.00	8.00	to 10.00	8.00	to 12.00
" " Lower grades.....	5.00	to 6.00	3.00	to 5.00	3.00	to 8.00	3.00	to 6.00
Chatenay, Morgan, Fan, & Sp.....	8.00	to 10.00	6.00	to 8.00	8.00	to 10.00	8.00	to 10.00
" " Lower grades.....	5.00	to 6.00	3.00	to 5.00	4.00	to 8.00	3.00	to 5.00
Killarney, Wellesley, Fan, & Sp.:	.....	to	6.00	to 8.00	8.00	to 10.00	6.00	to 8.00
" " Lower grades.....	.....	to	3.00	to 5.00	5.00	to 8.00	.....	to 3.00
CARNATIONS								
Fancy and Novelties.....	3.00	to 4.00	2.00	to 3.00	2.50	to 3.00	3.00	to 4.00
Ordinary.....	1.00	to 2.00	1.00	to 2.00	1.50	to 2.00	1.50	to 2.00
MISCELLANEOUS								
Violets, Double.....	.35	to .50	.75	to 1.00	.50	to .75	.50	to
" Single .....	.35	to .50	.75	to 1.00	.....	to .....	.....	to
Cattleyas.....	.....	to	50.00	to .....	.....	to .....	.....	to
Sweet Peas.....	.75	to 1.00	.75	to 1.00	.75	to 1.00	.75	to 1.00
Tulips, Daffodils	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00	2.00	to 3.00
Lilies.....	10.00	to 12.50	15.00	to	8.00	to 12.00	8.00	to 12.00
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Gardenias.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Mignonette.....	.....	to	8.00	to 10.00	2.00	to 3.00	3.00	to 4.00
Lilacs (100 bunches).....	.....	to .....	.....	to .....	.....	to .....	.....	to
Adiantum.....	.....	to 1.00	1.00	to 1.50	.50	to 1.00	1.00	to 1.50
Smilax.....	.....	to 12.50	15.00	to 20.00	.....	to 20.00	.....	to 25.00
Asparagus Plumosus, strings.....	40.00	to 50.00	50.00	to	40.00	to 50.00	25.00	to 50.00
" " " & Spreng. (100 bchs.)	.....	to 25.00	25.00	to 35.00	25.00	to 50.00	20.00	to 25.00

WINSOR CARNATION BLOOMS

Grown by the F. R. Pierson Company

SOLD EXCLUSIVELY BY

R.T.B.

NEW YORK CUT FLOWER CO.

55-57 WEST 26 STREET, NEW YORK

J. A. MILLANG, Manager

WILD SMILAX

\$3.50 per case.

The only place where you can get it.

Long Needle Pines, \$1.00 per doz. Palm Crowns,
\$2.50 per dozen. Extra nice long-stemmed Palm
Leaves, \$2.50 per 100. Magnolia, \$2.50 per case,
16 cubic feet. Sheet Moss, \$2.00 per sack. Grey
Moss, \$2.00 per sack. Galax, \$1.00 per 1000.

Speed a Specialty.

Write for Catalogue.

Goldwell the Woodsman Decorating Co., Inc., Evergreen, Ala.

In ordering goods please add "I saw it in HORTICULTURE."

The KERVAN CO.

20 WEST
27th ST., N. Y.

WHOLESALE DEALERS

Fresh cut Palmetto & Cypas Palm Leaves, Galax, Leu-
cothoe, Ferns and Mosses. All Decorating Evergreen

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 28 State St., Boston.
For page see List of Advertisers.

ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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ALTERNANTHERAS

Alternantheras, red and yellow, \$2 per 100. Jos. H. Cunningham, Delaware, Ohio.

AMPELOPSIS.

5,000 *Ampelopsis Veltchil*, pot grown. Dormant, long tops, \$4.00 per 100. English Ivy, 3 1/2 in., 3 to 5 ft., \$8.00 per 100. Cash. Benj. Connell, West Grove, Pa.

ARAUCARIAS

Peter Henderson & Co.
35-37 Cortlandt St., New York.
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A. Leuthy & Co., Roslindale, Mass.
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ASPARAGUS

Albert M. Herr, Lancaster, Pa.
Asparagus Robustus.
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Plumosus, 3-in., \$5.00 100; \$40.00 1000. Christ. Winterich, Cyclamen Specialist, Defiance, Ohio.

Asparagus plumosus nanus and *Sprengeri*, 2 1/2-in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.
Asp. Plumosus and *Sprengeri*, 2 inch pots, \$2 per 100. Jos. H. Cunningham, Delaware, O.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

Asparagus Crawshawii, a new, beautiful asparagus. Seedlings, \$3.00 per 100; \$25.00 1000; transplanted seedlings, \$5.00 100; \$40.00 1000. Jas. Crawshaw, 403 Plainfield St., Providence, R. I.

ASPARAGUS SEED

S. S. Pennock-Meehan Co., Philadelphia.
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C. Elsele.
11th and Roy Sts., Philadelphia, Pa.
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L. Van Steenkiste.
1 Dey St., Jersey City, N. J.
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ASTERS.

Novae-Angliae Asters, strong, \$3.00 per 100; \$25.00 per 1000. Ellsworth Brown & Co., Seabrook, N. H.

Aster Miss Kate Lock, \$1.00 tr. pkt. It's the best aster grown. J. H. Lock, 41 Manchester Ave., Toronto, Ont.

AZALEAS

John Scheepers & Co., 2-6 Old Slip, N. Y.
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A. Leuthy & Co., Roslindale, Mass.
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Azalea Amoena in large quantity, 25c., 50c., and \$1.00. Ask for trade list of choice hardy ornamental stock. Samuel C. Moon, Morrisville, Pa.

BAUR CARNATION CLIP AND PLIERS

Baur Floral Co., 18 W. 10th St., Erie, Pa.

BAY TREES.

John Scheepers & Co.
4 and 6 Old Slip, New York.
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Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

J. E. Felthousen, Schenectady, N. Y.
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C. Elsele, 11th and Roy Sts., Phila.
Spring Bedding Plants.
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R. Vincent, Jr., & Son, White Marsh, Md.
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BEGONIAS

Begonia Gloire de Lorraine. Extra fine, 2 1/4 inch pot. Leaf cutting \$12 per 100; \$100 per 1000. Delivery May 1st. Julius Roehrs Co., Rutherford, N. J.
Jos. H. Cunningham, Delaware, O.

BELGIAN PLANTS

L. Van Steenkiste, 1 Dey St., Jersey City, N. J.

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BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

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A. T. Boddington, 342 W. 14th St., N. Y.
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Rickards Bros., 37 East 19th St., New York.
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H. F. Michell Co., Philadelphia.
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Johnson Seed Co., 217 Market St., Phila.
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John Scheepers & Co., 4-6 Old Slip, N. Y.
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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

Caladium esculentum bulbs, 5x7, \$1.00; 7x9, \$2.00; 9x11, \$4.00; 11x15, \$6.00 per 100. Tuberoses, 4x6, \$1.00 per 100. Cash. C. B. Johnson, Wallace, N. C.

Amaryllis formosissima, 11-13 cm., \$2.00 per 100; \$18.00 per 1000. *Bessera elegans*, 7-9 cm., \$1.00 per 100; \$9.00 per 1000. *Pancratium*, spider lily, 12-15 cm., \$3.00 per 100; \$20.00 per 1000. *Tigridias*, mixed, 7-9 cm., \$2.00 per 100 \$12.00 per 1000. *Zephyranthes*, white, 7-9 cm., \$1.00 per 100; \$9.00 per 1000. Price includes carriage paid. J. A. McDowell, Ap. 167, City of Mexico.

CACTI

Old Man cactus, 4 to 5 inches high, \$3.00 per doz.; \$22.00 per 100. Carriage paid. J. A. McDowell, Ap. 167, City of Mexico.

CANNAS

A. T. Boddington, 342 W. 14th St., N. Y.

The Conard & Jones Co., West Grove, Pa.
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Cannas, 1000 each, Allemania, Austria, Burbank, \$1.00 per 100. O. B. Stevens, Shenandoah, Iowa.

10,000 potted cannas, 20 best sorts, 4 to 6c.; Dormant, \$1.50 per 100. Benj. Connell, West Grove, Pa.

Crimson Bedder, a superb canna, very handsome for bedding. Large, sound roots, \$1.00 per 100; started plants, \$2.00 per 100. Cash. A. Carlin, Elberon, N. J.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.

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S. S. Skidelsky, 824 N. 24th St., Phila.
Rose Pink Enchantress.

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Chicago Carnation Co., Joliet, Ill.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Carnations, Winsor, White Enchantress, Helen M. Gould.
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A. J. Guttman, 43 W. 28th St., New York.
John E. Haines, Bethlehem, Pa.
Carnation Imperial and Pink Imperial.
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F. Dorner & Sons Co., Lafayette, Ind.
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Guttman & Weber, 43 W. 28th St., N. Y.
Carnation Victory.
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N. Y. Cut Flower Co., 55-57 W. 26th St., New York. J. A. Millang, Mgr.
Carnation Winsor Blooms.
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Harlowarden Greenhouses, Greenport, N. Y.
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Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kauback & Son, Malden, Mass. 35,000 square feet covered by Glass.

CHRYSANTHEMUMS

Eggeling Floral Co., 1653 S. Grand Ave., St. Louis, Mo.

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Charles H. Totty, Madison, N. J.
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Harlowarden Greenhouses, Greenport, New York.
For page see List of Advertisers.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums. White—Timothy Eaton, Estelle, White and Yellow Bonnafon, Alice Byron, Ivory. Pink—Glory of Pacific, Dr. Enguehard, Maud Dean, Yellow—Col. Appleton, Mrs. Whilldin, Cremona, Robt. Halliday, Roi d'Italie. Rooted cuttings, \$2.00 per 100; \$15.00 per 1000. Cash with order. Wm. Swayne, Box 226, Kennett Square, Pa.

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CINERARIAS

Cinerarias, 4 1-4 in. pots, mixed colors, clean plants in bud and bloom, 6c. each. Bargain. Try them. Alonzo Bryan, Washington, N. J.

COLEUS

Coleus, \$2 per 100. Jos. H. Cunningham, Delaware, O.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Evergreens of large size from 6 to 16 feet in variety frequently transplanted. Ask for list. Samuel C. Moon, Morrisville, Pa.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

Giant Hybrids transpl., ready for 2-in. and 3-in., \$3.50 100; \$30.00 1000. Plants grown of seed taken from the cream of my well known strain. Christ. Winterich, Cyclamen Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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J. K. Alexander, E. Bridgewater, Mass.
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Harlowarden Greenhouses, Greenport, New York.
For page see List of Advertisers.

DAHLIAS—Geo. H. Walker, write for catalogue of Dahlias, Roses, Phlox and Shrubs, North Dighton, Mass.

Dahlias, fine, strong bulbs. Also cannas. Write for price list. O. B. Stevens, Shenandoah, Iowa.

THE DAHLIA MANUAL.

An up-to-date work on dahlias and dahlia culture, covering the whole field. Illustrated. Price, 35c. W. W. WILMORE, Box 382, Denver, Colo.

We make them pay. So can you! the best for summer cutting—Kriemhilde, Catherine Duer, \$1.50 per doz., or \$10.00 per 100; Storm King, \$1.00 per doz.; \$8.00 per 100. Whole roots, field grown. W. C. Ward, Adams Street, Quincy, Mass.

I am again ready to handle your business. Only the cream of varieties handled. Standards and novelties, including Mrs. Winters, Mme. Dael, Navajo, Lonsdale, Dainty, Kriemhilde, etc. Catalogue of dahlias, hollyhocks, peonies and hardy plants now ready. W. W. WILMORE, Box 382, Denver, Colo.

DAISIES

Shastis Daisies. Burbank's named varieties, \$2.50 per 100, express prepaid. Leedham Bulb Co., Santa Cruz, Cal.

DECORATIVE PLANTS

A. Leutny & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Peter Henderson & Co.
35-37 Courtland St., New York.
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Dracaena indivisa, 5 in., \$2.00 per doz.
W. C. Rockwell, Bradford, Pa.

Dracaena terminalis from bench, fine.
\$25.00 100. Carl Hagenburger, West Mentor, Ohio.

ECHEVERIAS

Echeverias, 15 to 20 cm. in cir., \$3.00 per 100; \$22.00 per 1000. Carriage paid. J. A. McDowell, Ap. 167, City of Mexico.

FERNs

A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitmani.
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Siebrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.
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Boston ferns, pot grown, strong plants.
5 in., 25c.; 6 in., 35c.; Scottii, 5 in., 25c.;
6 in., 35c.; 7 in., 45c.; Elegantissima, 5 in.,
35c.; 6 in., 50c. S. J. Reuter, Westerly,
R. I.

FERTILIZERS

A sample 100 lb. bag of BLACHFORD'S CELEBRATED FERTILIZER, PLANT GROWER AND LAND RENOVATOR only \$2.75. This best grade Fertilizer is composed solely of pure Rose Growers' Bone Meal, Nitrate of Soda, Peruvian Guano, Sulphate of Ammonia, Sulphate of Potash and Gypsum in the correct proportions and in the most soluble condition. For benches and potting plants, for roses, carnations, lilies, mums, etc., many florists say it has never been surpassed. Particulars for florist and truck gardeners sent FREE on application.

BLACHFORD'S CALF MEAL FACTORY,
Waukegan, Ill.
Established at Leicester, England in 1800.

FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.

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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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FLORISTS SUPPLIES

N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.
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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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J. Stern & Co., 125 N. 10th St., Phila.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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FLOWERS BY TELEGRAPH

Alex. McConnell, New York.
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Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
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Thos. Young, Jr., 41 W. 28th St., N. Y.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.

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Samuel Murray, 1017 Broadway, Kansas City, Mo.

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Young & Nugent, 12 W. 28th St., N. Y.
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W. H. Donohoe, 2 W. 29th St., New York.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.

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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Ave and 31st St., Chicago.

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Wm. H. Rock Flower Co., Kansas City, Mo.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.

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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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Say! Send to Feustel, for prices on Red flower pots. Geo. E. Feustel, Fairport, Ia.

GALAX

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
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Caldwell the Woodsman Decorating Co., Evergreen, Ala.

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Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

GERANIUMS

R. Vincent, Jr., & Son, White Marsh, Md.
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J. E. Felthousen, Schenectady, N. Y.
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Wm. S. Herzog,
Morris Plains, N. J.
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C. Elsele.

11th and Roy Sts., Philadelphia, Pa.
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GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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Gladioli, named varieties. Write for list. E. E. Stewart, Rives Junction, Mich.

Gladiolus Augusta, 1st size, \$12.00; 2nd size, \$8.00 1000. Cash. Rowehl & Granz, Hicksville, N. Y.

In writing to Advertisers kindly mention Horticulture

GLADIOLI—Continued

Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

GLADIOLI. Groff's Hybrids, Gold Medal and Silver Trophy Strain, Crawford Strain. Farquhar Hybrid seedlings. JOHN H. UMPLEBY, Lake View, N. Y.

	Per	Per
	100	1000
5,000 Gladioli Florist Mix.....	.75	\$6.00
7,000 Montbretia Crocos, sin. fl'r.	.60	5.00
4,000 Oxalis Shamrock.....	.40	3.00
3,500 Oxalis Purpurea.....	.40	3.00
Cash with order, Elmer Shute, R. F. D. 41, West Newbury, Mass.		

GLASS

Boston Plate & Window Glass Co., Boston.
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GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GRAPE VINES

Bobbink & Atkins, Rutherford, N. J.
English Pot-Grown Grape Vines: Trained Fruit Trees.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Funkia variegata clumps, \$6.00 per 100.
H. Pladeck, Elmhurst, N. Y.

Yucca Filamentosa, No. 1, 4c.; Iris Sibirica, 3c. Ellsworth Brown & Co., Seabrook, N. H.

Our Catalogue of Hardy Plants are classified according to the height they grow. Mailed free on request. John R. Clarke & Co., Bellevue Greenhouses, 1700 Centre St., West Roxbury, Mass.

Hemerocallis Thunbergii, 12 inch clumps, \$20 per 100.

Yucca filamentosa, strong plants with 50 leaves, \$20 per 100.

Hibiscus moscheutos, 3 yrs., \$4 per 100.
Yucca gloriosa, \$10 per 100. Ask for trade list of hardy nursery stock. Samuel C. Moon, Morrisville, Pa.

HEATING APPARATUS

Lord & Burnham Co.,
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Johnston Heating Co., 1133 Broadway, N. Y.

HOLLYHOCKS

Hollyhocks. Large field-grown plants, \$3.00 per 100. Double in separate colors of red, white, pink, yellow and maroon; also the Allegheny strain. Send for catalogue of hollyhocks, dahlias and hardy plants. W. W. WILMORE, Box 382, Denver, Colo.

HONEYSUCKLES.

Golden Honeysuckles, 7c. Ellsworth Brown & Co., Seabrook, N. H.

HORICUM

Hammond's P. & S. S. Works, Fishkill-on-Hudson, N. Y.

HORSES

Useful work-horses for florists' spring work; also florists' delivery wagons, good as new. Edward Higgins, 1 West 28th St., New York.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.

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HOT WATER CIRCULATOR

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HYDRANGEAS.

Hydrangea paniculata grandiflora, 3 ft., 3c. Ellsworth Brown & Co., Seabrook, N. H.

INSECTICIDES.

Nicotifide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Louisville, Ky.

IRISES

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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

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Lily of the Valley Clumps.
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LILY BULBS

Lillium superbum, extra large bulbs, 25c.
each; \$1.50 per 10; \$8.00 per 100. L. H.
Williams, Nottingham, N. H.

LIVISTONIAS

Livistonia Rotundifolia. Well leaved and
clean, \$6, \$9, \$12 per doz. J. Roehrs Co.,
Rutherford, N. J.

LOBELIAS

MEN—MEN—MEN
LOBELIA KATHLEEN MALLARD
Fine double flower; fine, strong 2 1/2-inch
pot; \$5.00 per doz
Quantity limited. Order at once.
J. Roehrs Co., Rutherford, N. J.

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Kalmias, Rhododendrons.

Henry A. Dreer, Philadelphia.
Rhododendrons, Boxwood Edging, Hardy
Shrubs and Border Perennials.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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Cut leaf Staghorn sumach, large stock,
6c. to 15c.; Kudzu Vines, 15c. Edw. Teas,
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Orchids, Orchid Baskets, Peat.
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Laelia anceps, \$4.00 per doz.; \$25.00 per
100. Carriage paid. J. A. McDowell, Ap.
167, City of Mexico.

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Wm. Dobbertin, 595 Joseph Ave., Roches-
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Giant Pansy Plants.
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Pansy plants; strong transplanted, \$10.00
per 1000. F. A. Baller, Bloomington, Ill.

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PEONIES

Yokohama Nursery Co., 31 Barclay St.,
New York.

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Peonies, fine assortment, \$10.00 per 100.
F. A. Baller, Bloomington, Ill.

Peonies. 1200 sorts. Greatest list any-
where. C. Betscher, Canal Dover, Ohio.

Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfield, West Point,
Neb.

Peonies. 200 strong undivided five year
old clumps; pink sorts only, \$25 per 100.
Ask for trade list of ornamental nursery
stock. Samuel C. Moon, Morrisville, Pa.

PETUNIAS

The Yates Floral Co., Canajoharie, N. Y.
Double Petunia the Queen.

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Pot hangers, Kramer's \$1 doz. by exp..
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Mineralized Rubber Co., 18 Cliff St., N. Y.
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PRIVET

California privet, all sizes. J. T. Lov-
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Low-budded roses, No. 1, \$95.00; No.
1-2, \$65.00 1000. H. T. Jones, Elizabeth,
N. J.

American Beauties, 2 1-2 in., \$8.00 per
100; \$75.00 per 1000. Chas. H. Totty, Mad-
ison, N. J.

Own root roses, 2 years. C. Ramblers.
\$7.00; Dorothy Perkins, P. W. and Y. Ram-
blers, \$5.00; H. P. roses and Baby Ram-
blers, \$8.00 per 100. Gilbert Costich, Roch-
ester, N. Y.

Baby Rambler roses, fine dormant stock,
one year, \$12 per 100, 2 1-4 in. pot plants,
extra well rooted, \$4 per 100, \$30 per M.
Orders booked for delivery now or any
time up to late spring. Samples free.
Brown Brothers Company, Rochester, N. Y.

SALVIAS

Perennial Gardens Co., Toledo, O.
Salvia Zurich.

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H. E. George, 929 Morton Ave., Pasadena,
California.

Delphinium Cardinale Seed.

Plumose seed, \$2.50 per 100. Jos. H.
Cunningham, Delaware, O.

I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.

Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and
Tree Seeds.

Surplus Garden Peas—50 bu. Alaska,
\$3.25 per bu.; 40 bu. First and Best, \$2.00
per bu. New crop northern Michigan
grown; none better. W. F. Allen, Salis-
bury, Md.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Mar-
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Pulverized Sheep Manure.

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SHRUBS.

Japanese Wistarias, 8c.; Berberis Thun-
bergii, 12 to 18 in., 3 1-2c.; Hibiscus, C.
Eye and Pink, 3c.; Norway Spruce, 1 1-2
to 2 1-2 ft., 8c. Ellsworth Brown & Co.,
Scabrook, N. H.

1000 Large Shrubs 5 to 8 ft. assorted for
\$150. Ask for trade list of ornamental nur-
sery stock. Samuel C. Moon, Morrisville,
Pa.

SMALL FRUIT PLANTS

Dewberry plants, Lucretia and Austin,
\$5.00 per 1000, \$20.00 per 5000; Premo, \$8.00
per 1000, \$25.00 per 5000; Turner red rasp-
berry plants, \$6.00 per 1000, \$25.00 per
5000. W. F. Allen, Salisbury, Md.

In writing to Advertisers kindly mention Horticulture

SMILAX

Smilax seedlings, fall-sown, \$3.00 per 1000. F. A. Bailor, Bloomington, Ill.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

Spiraea, Van Houttii, 2 to 3 ft., 6c.; 18 to 24 in., 4c. Ellsworth Brown & Co., Seabrook, N. H.

STEAM TRAP

E. Hippard, Youngstown, O.
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STRAWBERRY PLANTS

Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

THERMOSTATS

Fire and Frost Alarm. Heat regulators. Brown Alarm Co., Denver, Colo.

TOMATO SEEDS

Wm. Sim, Cliftondale, Mass.
Comet Tomato.

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VEGETABLE PLANTS

500 to 1000 2 1-2 in. Pot Plants, Tomato. "The Comet." Strong and ready for shift. \$3.50 per 100. Cohanzle Carnation Greenhouses, New London, Conn.

Small seed-bed to large transplanted vegetable plants ready for field. Best sorts cabbage, cauliflower, lettuce, etc. Moderate prices. Let us send you price lists. Frank Shearer & Son, Binghamton, N. Y.

50,000 large 4-year old Barrs Mammoth Asparagus roots, \$6.00 per 1000; \$25.00 per 5000. (500 will fill a sugar barrel.) Address W. F. Allen, Salisbury, Md.

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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VINCAS

10,000 vincas 2 1-2 in., fine, \$2.50 per 100; \$20.00 per 1000. R. Cuttings same, \$1.00 per 100; \$7.00 per 1000. Cash, please. Benj. Connell, West Grove, Pa.

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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 38 40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

WIRE SUPPORTS

The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

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BETWEEN YOU AND ME, What do you think of the Buyers' Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

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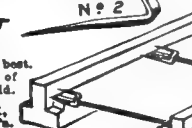
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FULL SIZE
No. 2



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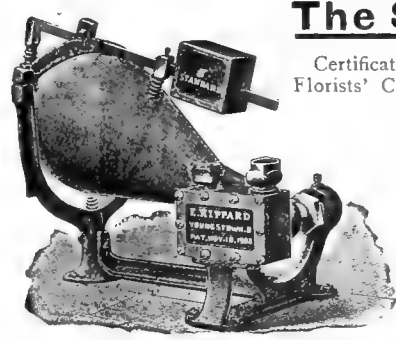
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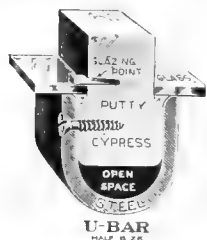
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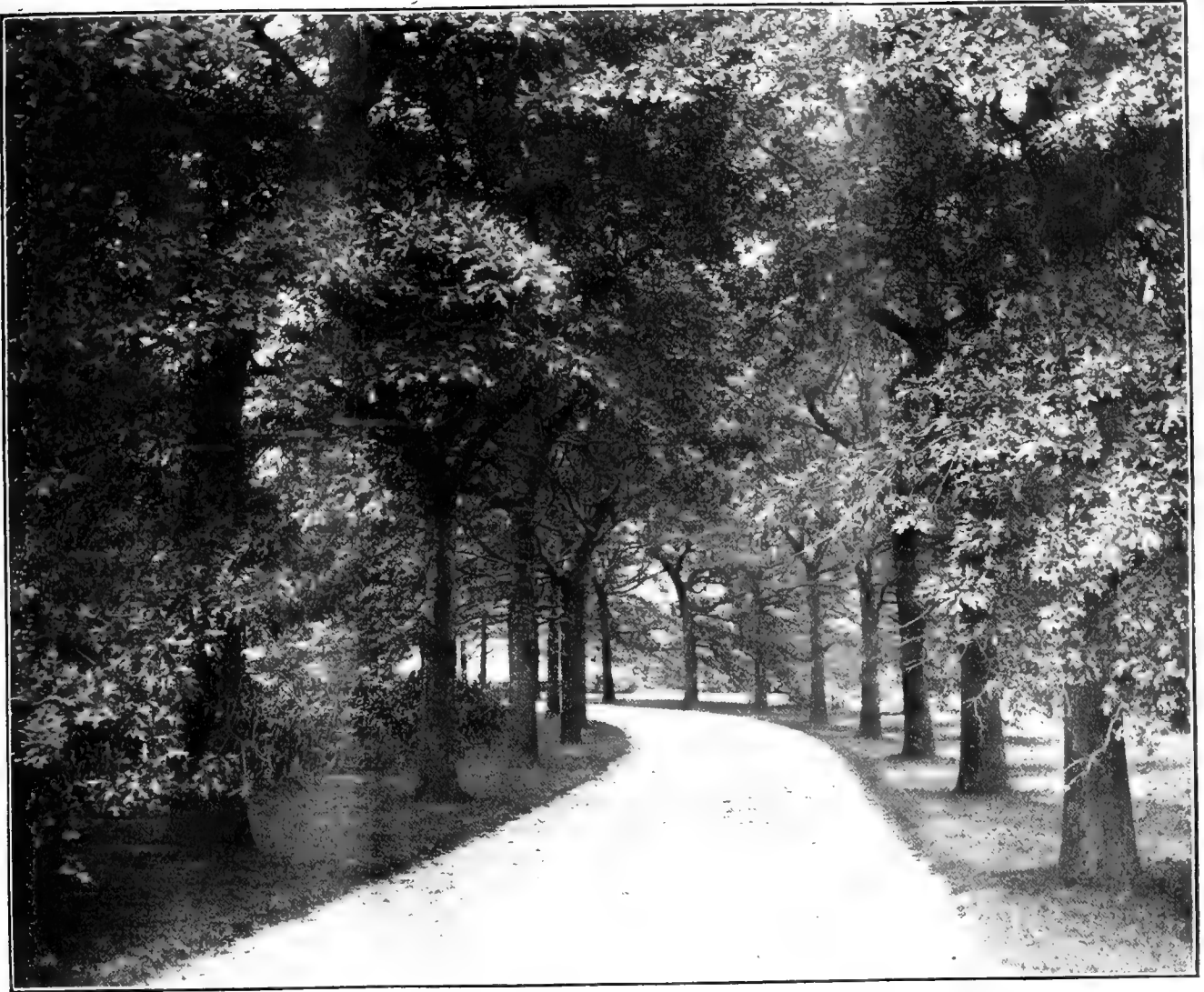


HORTICULTURE

Vol. V.

APRIL 20, 1907

No. 16



ENTRANCE AVENUE OF PIN OAKS
Dana Island, Glen Cove, N. Y.

Photo. by J. F. Johnston

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
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APRIL 20, 1907

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Winter and Summer



The two beautiful pictures showing the contrasts of the December and June landscape, herewith published, were taken on the grounds of Mr. F. S. Moseley of Newburyport, Mass., justly famed as one of the finest private estates of New England. At the present transition period although all are yearning for the tardy spring to assume its sway and everybody has had a surfeit of wintry conditions in the unprecedentedly long and severe season through which we have passed, yet none

will be insensible to the charm of this picture of winter scenery with its snow-clad trees. The contrasting view showing the rose garden of hybrid perpetuals and pergola adorned with hardy climbing roses speaks for itself. In no line of garden material has greater advancement been made in recent years than in that of hardy rambling roses. The dealer or planter makes no mistake in stocking up, especially on the new varieties. Our Buyers' Directory tells you where the right sorts may be procured.

Ornamental Conifers

(Continued.)

CUPRESSINEAE

The Cupressus, which gave the name to this tribe, comprises nearly all natives from California and Asia. None of them are really hardy in New England. Those that may succeed in good sheltered situations as far north as Connecticut are: *Cupressus Lawsoniana* from California which is a very elegant tree in some of its many forms. It is one of the conifers which gives the greatest number of variations in the seed beds. Some have the top of their shoots pendant, or thread-like, of very graceful effect. Some grow erect, narrow and compact of different shades of green, blue, yellow or variegated in color. The blue and dark green colored seem to be the hardiest. We have a few good ones which have stood severe winters.

C. Nutkaensis or *Thuyopsis borealis*, the Nutka Sound cypress, resembles much *Lawsoniana* in its form and way of growing, but is coarser and the branchlets at the upper branches are more pendant. There are a few good pendulous, glaucous and variegated forms of it in cultivation.

C. thuyoides, the white cedar comes from the southeastern States where it grows in swamps in company with bald cypress; it is a thin growing little tree with erect, short, string-like shoots of not much ornamental value. There is a yellow variegated form which is quite effective.

C. leptoclada, or *spheroidea Andelyensis*, and *C. ericoides*, which are said to be forms of *thuyoides*, are two nice, compact, pyramidal-growing little trees, both have heather-like foliage and may be grown in the corner

of a wall or building or other natural shelter from north winds.

Retinospora—also called *Cupressus*, *Thuya* or *Chamaecyparis*—*obtusa* and *pisifera*, are both from Japan where they are grown for their valuable timber. They are good, hardy trees and in good deep soil they soon grow to a nice size, spreading, pyramidal in form, well furnished with branches, and they are very effective on large lawns. *Obtusa* has the needles flattened along the shoots and is glossy, while *pisifera* has them more open and pointed; both have produced many interesting forms from sports. The tendency of the *retinosporas* to sport is shown in the way these varieties are grown in a dwarfed form in Japan; these same forms when given good growing conditions here often sport back to the type. I never saw any new forms coming from seeds; the result has always been that when seed germinated it proved to be identical to the seed bearer or type. It is from the above mentioned sports that the Japanese grow those little trees reputed to be a hundred or more years old with which they tax our credulity.

Among the form of *R. obtusa* are: *R. o. compacta*, which grows to a big round compact form, is of a glossy green color and makes beautiful specimens. *R. o. aurea* is like the type, of more compact habit of a good yellow color which is more accentuated in the spring in growing time. *R. o. nana*, the "chibo hiba" of the Japanese, is a nice little tree with short compressed growth; a good plant for big rockeries. If given too much root space they often degenerate. *R. o. nana gracilis*, the same as the preceding with finer and shorter growth. There is a white variegated form of these two last named ones.

but they are not very constant. *R. o. nana aurea* has the same habit with longer growths and is yellow in color. *R. o. pygmea* is of a dwarf spreading habit with flat shoots. *R. o. Mariesii*, of erect habit, has the tips of the shoots creamy white. *R. o. filicoides* has the shoots long, narrow and flat and fern-like. *R. o. filicoides aurea* (*tetragona aurea*) similar in growth, but has shorter shoots; plant very compact, of a nice golden color which burns easily on the sunny side. *R. o. lycopodioides* has thick, round shoots irregularly set, the tops sometimes flattened like a cock's comb. *R. o. filifera* has long, thin, cord-like glossy pendulous shoots. We have some more obtusa forms, unnamed, from selected sports which are quite interesting; all very dwarf. All these obtusa forms are of good effect in big rockeries where they keep their character the best.

Am. Hort. Soc.

(To be continued.)

Fruit Topics

CULTURE UNDER GLASS

If there is one branch of horticulture more than another that requires painstaking effort and constant application to ensure success it is the growing of fruit under glass. Grapes are in particular grossly absorbing in their demands on the vigilance of the grower and they are not contented with monopolizing the time of their attendant for a certain limited time but insist upon being nursed from the time the first drop of water reaches the roots until they are en route to tickle some appreciative, and oftentimes unappreciative, palate.

Many growers nowadays are unfavorable to syringing overhead after the grapes are in flower contending that cleaner fruit results from moisture being furnished solely by evaporation and humidity, in which contention there may and doubtless is a great deal of soundness, still most growers would find it exceedingly difficult to keep down the pests almost inseparable from grapes without the aid of water applied with force to the foliage almost continuously except at the interval of bloom, and terminating only when the berries show color.

Large berries are more enviable than large bunches and in order to have large berries the bunches require to be well trimmed at the start. A second trimming may be necessary but so much the better if at first the work was so fearlessly done that the troublesome second going over will not be needed. It is undoubtedly injurious to grapes at trimming time to bring the hands (which invariably perspire during the operation) in contact with them; better have a piece of raffia attached to the shoulders of the bunches which will effectually hold them in the desired position long enough for the operation. Heavy cropping will in a few years, if persisted in, unfailingly ruin grape vines. A fair crop with fair sized bunches of large well-colored berries of good flavor is much more satisfactory than abnormal crops for a year or two with the inevitable failures following in successive years.

Peaches and nectarines indoors are much the same as grapes in the matter of over cropping. Large fruit of excellent flavor can only be expected when trimming has been attended to and at the proper time. Another important requisite in the cultivation of peaches and nectarines is the careful tying-in of the wood at all times, and dispensing with everything superfluous in order that

the fruit may be the better nourished and receive all the light possible.

OUTDOOR CULTURE ON TRELLISES.

The above remarks hold good in like manner with the same kinds of fruit grown outdoors, especially on trees trained upon trellises or on walls. The little extra labor necessary for this work will be more than paid for by the quality and size of the fruit resulting. There are many varieties of peaches suitable for that kind of cultivation outdoors, which, if they only received the treatment recommended here would yield fruit in no way inferior to that grown under glass.

Another consideration is the improved appearance of the trees when they are neatly kept in order by training and subsequent attention in the manner already indicated. It is not a matter of much cost to erect a trellis or stretch wires substantially along a brick or even a wooden building. After this is done trees can be purchased very reasonably either trained or otherwise; trained trees are preferable because the material for a start is already there without the need of an experienced hand to put them in proper shape. In a year or two these trees will grow and look better than most vines would, with the added consideration of an abundance of good fruit.

David McIntosh.

Our Colored Supplement

ALLINGTON PIPPIN.

None of the newer English apples have become popular so quickly as the variety Allington Pippin, represented on the accompanying colored illustration. It was introduced for public sale in 1896 and so far an apple is still to be classed among the newer ones. Now it is largely grown both for market sale and in private gardens. It is a handsome fruit and has many good qualities. It makes a neat orchard standard and does splendidly upon the Paradise stock either as a bush or cordon or other trained form. It bears fruit so freely that the latter have to be thinned, although not too much or the fruits become too large for dessert. It is in season longer than Cox's Orange Pippin and may be considered as one of the finest sorts ever sent out. The flesh is firm, of a pale primrose color, and the flavor is rich, resembling that of Golden Reinette. The fruit is in season from November to February.

Allington Pippin was first shown before the fruit committee of the Royal Horticultural Society in November, 1894, under the name of South Lincoln Pippin. This was awarded a first-class certificate and the stock was purchased by Geo. Bunyard & Co. As there were already other apples identified with the name of Lincolnshire they renamed it Allington Pippin. Year by year it has increased in popularity because of its free bearing, healthy growth and fine flavor. No parentage has been traced but it is thought to be a cross between the Golden Reinette and Cox's Orange Pippin. In growth it is larger in all its parts than Cox's Orange Pippin. Market growers are planting it by thousands and it will probably oust the old King of the Pippins from popular favor for it is in season at the same time.

Harry H. Thomas

Roses Under Glass

IV.

At this season, when the work of potting is in full swing, and the young stock demands so much attention, the old plants so long as they appear to be in good health are frequently neglected, and in a measure left to take care of themselves, the necessary cutting and watering being, perhaps, the only attention they receive.

Proper attention to training, so that each flower stem may be kept in an upright position, and as fully exposed to the light and air as is possible, will result in a larger cut of high-grade blooms. Neglect in this respect is conducive to the production of weak, spindling wood, which, if it does not come blind, will produce weak necks, and in these days of improved cultural methods, this class of roses is becoming less marketable. To secure a stem with as few defects as possible and bearing a well-developed bud, will necessitate the removal of lateral shoots while they are young and soft. If allowed to remain on the stem until they have become hard and woody, the laterals have by that time used a considerable amount of the nourishment which should properly have gone to develop the bud. The stem also will be crooked, which spoils its appearance and detracts from its value.

Cleanliness and pure air are essential to the health of the plants, and in order to effect as nearly as possible these desirable conditions, the ground under the benches and the walks must be kept as free of weeds and decomposing matter as the soil on the benches. Weeds form an ideal shelter for thrips, red spider, etc., and if we expect to keep these pests in subjection, weeds must be rigidly excluded.

As the season advances and the increase in the duration of sunshine from day to day becomes more perceptible, the plants will require a greater supply of water. The soil on the ends of the benches and along the sides usually dries out quicker than the rest of the bench. These places should be gone over carefully as soon as they show signs of drying, as, when once allowed to bake and crack open it is very difficult, one might say impossible, to get the soil wet again.

Liquid manure may now be applied to healthy stock, more frequently, adding to its strength as necessity requires. Before treatment, however, all the dry places on the bench should be watered with clean water, otherwise the plants situated in the dry soil will take up more of the liquid manure than they can use. As a result they will sicken and perhaps not recover sufficiently to be of further value during the rest of the season. Ventilation can also be given more freely and advantage should be taken of every bright day to admit plenty of fresh air. While this is being practiced it is well to observe and guard against sudden and extreme fluctuations of temperature as this is a fertile source of mildew. Abrupt changes also are very injurious to the young tender growth, causing checks which often result in malformed buds (especially does this apply to Beauty crops) and when once started, it is extremely difficult to bring them back to normal condition. The houses should be fumigated at least once a week, as, at this season green-fly multiplies with astonishing rapidity, and procrastination will result in the appearance of hosts of this pest, which will add greatly to our troubles, and call for strenuous efforts to again get them under subjection. Mildew also is a source of worry to the grower and frequent painting of the heating pipes with

a paste composed of sulphur two parts and lime one part, reduced to the consistency of paint, will be necessary to keep this in check. When the weather becomes too warm for this method to be longer practicable, the above mixture in powdered form may be applied to the plants by means of a powder blower, allowing it to remain twenty-four hours before syringing again.

J. E. Simpson

Pruning the Vineyard

The method of pruning will depend a good deal upon the ideas of the grower and on the manner of growth of the vines, whether vigorous or weakly. Many weak kinds are grown to stumps and pruned back to these every year. Others require support, and with these a certain amount of training is necessary.

With the former kind little is required other than to cut back the more vigorous growths to four or five buds and to thin out the weaker shoots.

Grapes are carried on the new wood of the present year's growth, the first five or six buds each giving rise to a fruit cluster. This means that if the vine is cut to twenty buds it will give sufficient chance for seventy-five or more clusters. Hence one can easily see how necessary is vigorous pruning to avoid overtaxing the vine. This is a point too often overlooked in pruning small home vineyards, and as a result the vines are overworked, becoming practically barren in a couple of years. How many buds can be left depends on the strength of the soil, the style of training, the climate, age of the vine, and its present condition, whether neglected or cared for in previous years.

With vines grown on trellises or other supports a number of methods of pruning have been evolved. The two most important are the renewal and the spur. The first, the renewal system, consists in providing a fresh supply of wood each year to bear the next crop. This is done by growing two sets of canes, one set being sacrificed each year and replaced the succeeding season. If the vine is grown to four canes, two are kept to bear fruit and two are cut back during the winter pruning. When growth starts the fruit is borne on the shoots coming from buds on the canes of the previous season's growth, while two new shoots are grown from the stubs of the severed ones. In this way there are always vigorous one-year-old canes for fruit and the basis for the next year's bearing wood.

The second system, the spur, consists in growing each vine to two or four arms and training these horizontally along a support. From the arms laterals are developed at frequent intervals and the fruit is grown on these. When winter-pruned, the laterals are cut back to three or four buds and one new cane grown from each of these to replace the old one. This cane is again cut back the second season, and the operation repeated annually. As the old arms become knotted and show signs of giving out the two canes nearest the centre are allowed to remain and at the subsequent pruning are trained to take the place of the old arms, removed.

In the majority of cases vigorous pruning and a generous fertilizing will work wonders, unless the vineyard is so old that replanting is the only recourse.

R. L. Adams

HORTICULTURE

VOL. V

APRIL 20, 1907

NO. 16

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.**11 Hamilton Place, Boston, Mass.**

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager**SUBSCRIPTION PRICE**

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 5c

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;

six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass. under the Act of Congress of March 3, 1879.

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COLORED PLATE WITH THIS ISSUE

The
Rose Society's
big problem

The fact that the American Rose Society has not been able, as yet, to put in operation any successful plan for uniting the amateur and trade interests under its banner should

neither surprise nor discourage the true friends of the society. He who shall evolve a way whereby this desirable end may be attained will certainly merit the deep gratitude of every one who grows a rose either under glass or in the open garden. To enlist the public in any general movement of this kind is not a simple matter and should the popular enthusiasm ever be awakened on behalf of a national rose organization it will undoubtedly be by the employment of very different methods from those that have proved effectual in the upbuilding of our professional bodies. At the present time it is manifestly the wisest plan for the

American Rose Society to adhere to the course on which it is now well started, making sure to retain and, if possible, increase the active support of the professional rosarians and, while thus strengthening its foundations, watch out for possible ways and means whereby the amateur may be brought into the fold and a practical solution found for that hoary old problem of how to perfect an efficient alliance of the masses, the classes, and the profession.

Phases of the flower trade

Reports from the principal markets indicate the existence of an unmanageable surplus of most kinds of cut flowers ever since Easter, with the unfortunate accompaniment of a very light demand instead of the brisk call that April was expected to usher in. So far as bulbous flowers, lily of the valley, etc., are concerned the over-supply might have been avoided by a less liberal planting of the bulbs by the growers, and the avalanche of belated Easter lilies can fairly be attributed to the unforeseen inclement weather during the last stages of their growth. In the case of roses, violets and carnations, however, it is to be expected that an unavoidable over-production will be in evidence every spring, as plantings are made with a view to meeting the market requirements during the dead of winter when crops are produced but sparingly and the more scanty the winter production the heavier will the spring cut be. So a practicable remedy cannot be presented. One feature of the situation is noteworthy in passing. The American Beauty after an almost complete absence for two or three months finds now, on its return in abundance, the market practically turning its back on it. Unable to get this rose when wanted the buyer seems to have taken up with other favorites, such roses as Killarney, Wellesley and Richmond having benefitted by the situation and Richmond especially intrenched itself with a hold that bodes ill for the prestige of the American Beauty next season.

Training for landscape work

The course in landscape gardening study for members of the Gardeners' and Florists' Club of Boston has come to a close for this season. The experiment appears to have been successful in all respects and the result of this regular study of the fundamentals of landscape gardening practice by half a hundred young gardeners cannot but raise the standard of gardening work wherever their influence extends. A thorough knowledge of plant culture is a splendid qualification for anyone aspiring to attain eminence in landscape work and he who lacks this is seriously handicapped but a sound knowledge of the composition of forms and their effect in landscape scenery and the practical handling of the materials required can never be acquired through the ordinary routine of greenhouse or nursery work. On the other hand a life time devoted to the study of rules and principles will avail little if refined taste and an artistic appreciation of what is beautiful and inspiring and fitting in landscape scenery be lacking in the individual. This indispensable attribute is perhaps more likely to be found in the typical gardener than in the average aspirant for landscape architecture degrees, for, oftener than otherwise it is his inborn affinity with the spirit of Nature and the delightful content experienced in living in close companionship with her most beautiful products which has influenced the gardener in the choice of his occupation. The fact that the greatest landscape artists in the past have come from the ranks of the gardeners is significant and suggestive of what the future may bring forth.

AFTER ADJOURNMENT.

Our seismometer indicates the presence of another brain storm in one of the cloisters of the Rhinelander Building, with impulse running north-east and south-west.

It would be a wise thing for the growers hereabouts to visit their New York commission men and see what is doing in the market before shipping. They might receive better returns.—Rhinebeck news in Poughkeepsie Eagle.

"This is wisdom's part."

We hear that there was a strike at a florists' establishment in Indiana a few days ago. So far as we can remember this is the first instance of a strike in the florist trade and we hope it will remain as a solitary instance. There never was a grievance yet that could not be remedied without this baneful recourse. Cut it out, boys.

Cleveland florists and undertakers are indulging in a little scrimmage over the question of prices and the commissions paid to the undertakers on funeral flower orders. Flowers at funerals are all right and fitting but the less the florists have to do with the undertakers the better it will be for the florists. There is only one time when humanity cares to come in contact with the undertaker; there is only one business on which they wish to visit him, useful man that he is, and the florist who wants to get and hold his share of the trade of cheerful flower buyers will keep the undertaker, his wagon and other paraphernalia well in the background.

That's an amusing war which the citizens of Topeka, Kans., have undertaken: a concerted attack on the dandelion, in which every one of the 45,000 inhabitants from the governor of the State down, are expected to take part. Tuesday of this week was appointed by proclamation of the mayor for the onslaught. The State House was to be closed for the day so that all the officers and assistants could wage war on the pests in the State House grounds assisted by 100 boys from the Reform School under inspiration of a band of music. The dandelion does muss up the lawn some, we agree, but if there were no dandelion-besprinkled fields one of the greatest charms of the spring days would be lost. The drug stores in Topeka doubtless have been sagacious enough to stock up on lame-back remedies. From what we know of the dandelion, it is "good at a fight."

A TALK ON BERMUDA.

At the horticultural seminar April 8th, Mr. G. A. Bishop, instructor in floriculture, Massachusetts Agricultural College, gave a very interesting account of Bermuda and the business of growing lilies, onions and potatoes there. He told about the ravages of the lily disease and how they were now overcome to a large extent. He spoke about the difficulty of keeping pure stock of Harrisii and of the introductions of various strains of Longiflorum and other varieties. He told about the difficulties experienced in the truck growing and shipping trade. As Mr. Bishop was engaged for several years in this work in Bermuda, he was able to give a very accurate as well as entertaining account.

THE MUSINGS OF MCGORUM.

I have just received my share of the free seeds; the chickens seemed to like them and the change of food seemed to make them thrive. I am surprised that certain of our silver-tongued orators from New York didn't get after the President about this thing when in Washington. There would have been a chance to have made their names everlasting by doing something that would have been a practical help to the trade, instead of wasting their time writing volumes about one little word. Suppose that the Washington members of both houses should pay full rate postage on all seeds, would they be so eager to send them?

In a daily paper not long ago I noticed there was a vacant space left in the Roosevelt hall of the followers of Munchausen. I hereby elect Job to fill that vacancy. Job wishes to know why I didn't exhibit at the Boston show. In the words of a friend of mine that show is at present an exhibition mainly for private gardeners. Is it any fun in exhibiting when there is no contest? I leave it to Job and others to tell the reason, but the leading light on the special prizes at the fall show is a private gardener and a pencil pusher, more power to his elbow.

The editorial in last week's issue of your New York contemporary contains some startling things, yet amusing. That paper has always classed itself as a purely trade paper, but in a certain catalogue of books, I find it is listed to anyone who has the money to buy it, and at a cut price. Probably the editor is ignorant of this fact. It is listed along with The Foolish Book and The Cat Journal, both of New York. I wondered where all its Bible talks were coming from. It has probably been read and discussed at some old ladies' sewing circle, and the Bible talks have possibly come from a member of the Oil Magnate's Bible Class. Strange, isn't it? We may expect to hear Job saying he is the author of the saying "Let there be light."

ROBERT T. MCGORUM.

DAHLIA ROOTS vs. CUTTINGS.

Editor HORTICULTURE:

While what J. K. Alexander says in your issue of 13th concerning roots of dahlias being more satisfactory than green plants is true, yet even an amateur need not be afraid to plant green plants in fear that something will happen to the young growing plant, or that the tubers will not winter. Like Mr. Alexander, the writer has tested the various methods of propagating and times of planting and reached the conclusion some years ago that for general purposes single eye divisions of dahlia roots planted late were best. But when it comes to novelties and when one, be he professional or amateur, wants to be up-to-date, then by all means buy green plants, for these only are available; or content one's self with following on behind the times.

The small dealers who are pushing the sales of green plants of novelties need no defense, all credit to them, and to seedling raisers who give us something new to look at when exhibition time comes around.

ALEXANDER MacLELLAN.

WHOLESOME CHESTNUTS.

The variegated vinca is much in demand for window boxes, tubs and many other forms and arrangements of plant decoration. The best plants for many purposes are to be had in 4-in. pots, but for those having much of the kind of work indicated to do plants in 3 or 3 1/2-in. pots will be very handy because usually after all the other plants are in place in a box or tub there is but little room left for the vincas which are usually put in last. For such purposes usually the main object is to have the vine long enough; diameter is not of much moment.

There is yet a little time left for the propagation of some kinds of bedding plants such as coleus, alternanthera and the like, but in the case of the former especially it cannot be too often said that invariably it will be found cheaper to purchase nicely rooted cuttings from some large grower who has special facilities for the production of that class of stuff in immense quantities and at extremely low figures.

Don't forget Memorial Day. Try to have something at once obviously appropriate and distinct for the occasion. We have not heard of any such thing so far but who knows but you may be the one to strike it, and make a good thing out of it. In any event have some nice plants in bloom for the occasion and announce the fact so that others not having such may know where to get them.

In planting flowering shrubs it is always well to bear in mind the importance of having a prolonged season of bloom. With that object in view, species and varieties should be chosen that will bloom from early in summer to as late a period as plants that are in other respects suitable are known to flower. On small areas of home grounds shrubs planted singly or in small groups are often desirable and sometimes a necessity, but in cases where much space is to be embellished more effecting, pleasing and elaborate ornamentation will be the result if shrubs are planted in large masses, or long, continuous and, if need be, interrupted borders, using species and varieties of one kind in the planting as much as possible.

A curve in a road by which a mansion is approached should have near it something to justify the curve. Where a curve is considered desirable, if there is not already something of the sort there, a specimen tree or a group of shrubs should be planted. Flower beds are very pretty, but it has often occurred to us that they might look just as pretty and more appropriate if, instead of scattering them all over a beautiful green lawn, a place should be found for them where they could nestle closely together. That may not be a good term to use, but the object is harmony of effect as well as a regard for the fitness of things, both of which are often ruined by patches of geraniums, coleuses and the like, where no mortal man would reasonably expect them, but which if properly and appropriately placed would be a source of pleasure.

Orlando Harrison says that the York Imperial and Grimes' Golden apples have been found the most profitable on the western shore of Maryland.

NEWS OF THE CLUBS AND SOCIETIES

MASSACHUSETTS HORTICULTURAL SOCIETY.

The trustees of the Massachusetts Horticultural Society have voted to open the library of the Society to its members and others interested in horticultural matters on Sunday afternoons from 2 to 6 o'clock, beginning Sunday, April 21.

It is believed that there are a considerable number of persons, whose business will not permit them the privilege of using the library during the hours in which it is now open, who would welcome the opportunity to use it were it open during some portion of their leisure. This applies especially to garden employees, who have little time and are not overburdened with means; yet, it is largely upon upon such men that the present and future success of practical horticulture depends.

The Massachusetts Horticultural Society, by offering young gardeners the use of its library, will be fulfilling an important part of its mission—the advancement of horticulture.

While the free use of the whole library is offered it is believed that the opportunity to consult the world's best horticultural periodicals will be greatly appreciated by many who could not under the former arrangements make use of them.

WM. P. RICH, Secretary.

COLUMBUS FLORISTS' CLUB.

Our club met on the 9th, a goodly number of members on hand. Since our last meeting our club has asked the permission of the Columbus Board of Education to be allowed, as in previous years, to make distribution of flower and vegetable seeds to the children of the public schools at one penny for each packet. The Board of Education have this season refused this privilege. At the same meeting they voted, however, to have their clerk correspond with the congressman from this district as to procuring free seeds for the children from the congressional distribution. On the main issue, that the plan of small packets of seeds for the children's gardens is a good one, there seems to be no difference of opinion here; but how it should be done has raised a seemingly uncalled-for strife.

At this meeting the best display of plants and flowers thus far this year was made: John Williams received 20 points for an *Araucaria excelsa*; Sherman F. Stephens, 13 points for some fine hyacinths, King of the Blues; R. A. Currie, 15 points for *Tournesol* tulips; I. D. Siebert, 13 points for callas, and John Williams was also "highly commended" for his geraniums. It was also arranged to hold this season in June a Strawberry Show, and to make the occasion a special entertainment for the ladies. In regard to the annual field day and picnic, the club chose a committee consisting of Messrs. James McKeller, R. A. Currie, George Bauman, Jacob Reichert and W. F. Metzmaier to arrange the affair.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

This club had a rousing meeting on Tuesday evening, April 16, there being no less than 150 members present to listen to B. K. Howard's enjoyable lecture on landscape gardening. It was a charming presentation of the topic from the view-point of the artist. After the speaker had concluded the subject was taken up and discussed the participants dividing on the question of prim tidiness in gardens and grounds vs. adherence to unconventional natural conditions, the gardener emphasizing the necessity of raking up dead leaves, cultivating the ground between shrubs, the production of perfect individual specimens, etc., and the other side urging for a recognition of the natural characteristics which tend to unity and a harmonious whole as superior to an unnatural conglomeration of units each with its own "hair cut." Lecture and arguments were received with much enthusiasm and applause greeted every telling point. A question from the Box drew out some varying views as to the advisability of trying to "carry over" Richmond roses under glass.

On the exhibition table were some remarkable spikes of *Lilium candidum* from W. N. Craig, which received honorable mention, *antirrhinum* from Wm. Downs, which also received honorable mention and a beautiful new hybrid *gloriosa*, flower crimson with white edge of petals shown by Arthur Griffin which received a report of merit.

Thanks were accorded to the Massachusetts Horticultural Society for its action in opening the library on certain evenings and invitation for the club members to make use of the privilege. Jackson Dawson was elected an honorary member.

The annual banquet of the club will take place at Horticultural Hall, Boston, on the evening of April 24, at 6.30 o'clock. Dancing after the banquet. Tickets are \$1.50 each and can be secured from the officers of the club up to and including Saturday, April 20, after which date, no tickets will be obtainable.

SPOKANE FRUIT AND VEGETABLE GROWERS' ASSOCIATION.

The Spokane Fruit and Vegetable Growers' Association elected these officers at the last meeting, when 150 members were in attendance: President, A. A. Kelly, Spokane; manager, John Gifford, Spokane; trustees, three years, W. S. Kelsey, Greenacres; J. F. Strong, Five Mile Prairie; W. H. Stoneman, Mead; George Kingston, Foothills; two years, E. W. Ross, East Spokane; George Gates, Orchard Prairie; L. P. Passmore, Moran Prairie; S. Miller, Greenbluff; E. Whitmore, Greenbluff; one year, C. L. Smith, Spokane. R. W. Bailey, East Spokane; A. Worthington, Hillyard; C. F. Young, Spokane; W. M. Jones, Greenacres.

PASADENA GARDENERS' ASSOCIATION.

The second annual spring flower show which was held on the 4th, 5th and 6th of April under the auspices of the Pasadena Gardeners' Association, proved to be a magnificent success in every way. It was pronounced by some of the visitors to be the best ever held in southern California, but we do not go as far as that. The exhibition was gotten up for the first time last year as an experiment and to encourage the interest in horticulture and floriculture, and the promoters of the association feel gratified by the success attained and interest which has been taken in the various branches of horticulture.

The exhibition was held in a large tent on North Fair Oaks avenue, Pasadena, and with exquisite taste the exhibits were so arranged that each had its full share of light and effect. Although the weather was hardly suitable to the exhibition of orchids Mr. A. K. Macomber's exhibit was a magnificent sight, which was awarded first prize, also special ribbon and certificate of merit.

The aquatic exhibit of Mr. Sturtevant of Hollywood was very good, displayed in the center of a small stream, and artistically arranged with a fountain of beautiful design. The exhibit of palms and ferns were especially effective, also table decorations which were tastefully carried out by Misses Thomas and Hudson who gained first and second prizes.

Other prizes were awarded as follows, first and second respectively:

Stocks, D. M. Corner, E. Kirby. Pansies, Mrs. Girouard, Frank Powell. Sweet pea, Thos. Lambert, Geo. Dell. Gaillardia, A. C. Johnstone, C. Holder, gardener, Otto Heutych, Marguerites, H. Ramsey, Mrs. Durand. Lilac, Mrs. Watson, A. Harding. Bulbous plants, Mrs. Watson, with daffodils. Anemones, J. Manser. Bougainvillea, C. P. Morehouse, F. E. Wilcox, Wm. Augustine, gardener. Poppies, calenda and verberna, C. Holder. *Antirrhinum*, D. Cameron, J. Manser. *Acacia*, Mrs. Watson. Wild flowers, Roy Dell. *Cineraria hybrida*, J. Albrecht. Boston Fern, M. Cameron. *Elegantissima*, Mrs. H. M. Singer. *Asparagus plumosus*, M. Cameron. Sprenger, E. Rust. *A. deflexus*, Mrs. H. M. Singer. Carnations, Theo. Frantz, W. Augustine. Collection of palms, Park Nursery. Rex Begonias and begonia collection, Mr. Cameron. Best flowering begonias, Park Nursery, H. Thornton. Tropical plants, Park Nursery. Cacti, H. Boorman. Floral basket, Mrs. J. R. Vose, Misses Thomas and Hudson. Group of plants, E. H. Rust, Park Nursery Co.

Among the striking features of the show were an exhibit of roses by Howard & Smith, not for competition; a display of amaryllis from the purest white to deepest red, introduced in the West for the first time and said to be English prize winners; and gladiolus.

ST. LOUIS FLORISTS' CLUB.

The April meeting and annual rose exhibition was held on April 4. The attendance was better than at any previous April meeting. Vice-president John Cannon handled the gavel. The trustees reported that the celebration of the twentieth

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anniversary of the club and the picnic would not be held at the same time; a full report on the entertainment to be furnished would be made at the May meeting.

The question box brought out discussions and reviews of the Easter trade. The growers complained of the warm weather in March and stated the loss on flowering plants and bulb stock was fully 75 per cent.; the wholesalers felt the glut two weeks before Easter and the scarcity one day before; the retailers smilingly told of medium prices, good weather for delivery and fine trade. The roses shown were of excellent quality. Harry Young, F. Fillmore and G. Augermiller were appointed judges, and reported as follows: To J. F. Ammann, first for vases of Chatenay, Killarney, Richmond, Ivory, and second on Bride; Walter Weber, second on Chatenay, Richmond and mixed roses; honorable mention for Miss Kate Moulton, staged by Minneapolis Floral Co.

The next meeting will be held on May 9, at two o'clock.

MORRIS COUNTY (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

The April meeting was a very enthusiastic as well as most edifying one. It was "Rose night." We had three fine vases of Queen Beatrice from F. H. Kramer, Washington, D. C. A lively interest was taken in it. It previously secured a certificate of merit here.

L. A. Noe had a vase of American Beauty and one vase each of Richmond, Bride and Bridesmaid. Wm. G. Badgley brought Bridesmaids, David Falconer, Brides and Bridesmaids; John R. Mitchell, Brides and Bridesmaids; Andrew Kennedy, gardener to Dr. Leslie D. Ward, cinerarias; Alexander Boourn, Killarney rose, and Robt. M. Schultz, Richmond. Cultural certificates were secured for the above.

Papers were read on the rose by David Falconer and Andrew R. Kennedy, both fine efforts. An interesting hour was spent in after discussion. The essayists were asked to explain many little kinks in their paper, and many pros and cons were put forth. Discussing live questions is what seems to bring the boys together.

May 8th will be devoted to "Lawns, their Care and Management," Arthur Herrington, essayist. E. R.

The Fruit Growers' Association of Wenatchee, Wash., elected these officers: President, M. O. Tibbetts; vice-president, C. B. Clark; treasurer, Guy C. Brown; secretary, E. T. Belch; trustees, William Turner and John R. Peters, Wenatchee; M. O. Tibbetts and C. B. Clark, Cahsere; H. W. Otis, Peshastin; C. C. King, Entiat, and E. T. Belch, Malaga; exhibit committee, William Turner, George Farwell, L. H. Tuchenal, C. C. King and T. A. Vaale.

BLOCK OF CHOICE EVERGREENS.



John Waterer & Sons' American Nursery, Bagshot, Eng.

APPLES FOR FRANCE.

Consul John C. Covert, of Lyon, has received a letter from the Idaho State Agricultural Association stating that the farmers of that State are about to embark in an effort to sell large quantities of their apples to foreign countries, and making inquiries about packing, etc., and the possible sale of their apples in France. Mr. Covert responds:

There are a number of wholesale dealers in fruit in this city who say that they sometimes have to import large quantities of apples from foreign countries. Their imports thus far have been principally from Canada. Russet apples are very popular with them. A few apples have been received here from California and they are very well liked. Some fault was found with the packing, from which many of the apples were found bruised upon arrival. The largest fruit dealer in Lyon suggests that a heavy lining of coarse paper be placed on the sides of the barrels, between the apples and the wood. They should also be packed in as small quantities as possible. In all the cities of France there are many thousands of small fruit dealers who would buy a small barrel or crate of apples, but could not buy a large barrel.

In the great central markets in the cities of this country, game, fish, or fruit, in their season, is sold at auction once or twice a day. If the Idaho people would appoint an agent here to receive their apples and sell them at auction, they might succeed in forcing their way into this market.

WHY SO MANY NEW INSECTS?

From Bulletin of Storrs Agrl. Exper. Station.

With the advent of every new pest comes the question, Why are there more insects now than formerly? Our parents and grandparents grew fine apples, and they gave no attention to insects and the troubles attendant on their treatment. A partial explanation of this fact is found in the many disturbances of nature, chief among which is the removing of our forests, which has forced insects to change their diet. It is true that many species have been imported and others have been more thoroughly distributed. We now have a much better knowledge of insects and consequently they come more frequently under our observation. The question is also largely one of ideals. Our ancestors were satisfied with smaller yields and lower quality; that is, they did not seek for that perfection with which our modern growers are so much concerned.

SHRUB CHAT.

Spirea Davidii considering its merit which is of a very high order, and its being a comparative novelty, is offered by dealers at a very reasonable price.

Aralia Japonica sends up spikes of snowy white flowers in autumn.

The *Buddleias* are very desirable shrubs. Of the several varieties in cultivation *B. variabilis* is perhaps the best; it flowers in long clusters of reddish violet color. Illustrated by a colored plate in HORTICULTURE last year.

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THE SAN JOSE SCALE.

Doubtless one of the worst insect pests with which the fruit-growers of the United States have to contend is the San Jose scale. It is scattered all over the country, from the Atlantic to the Pacific, and from the Gulf to the northern tier of states. This little insect, less than one-fourth the size of an ordinary pinhead is causing millions of dollars of damage to our fruit plantations, and hundreds of thousands perhaps to a variety of ornamental trees and shrubbery.

In Rhode Island it is found in every section where nursery stock has been planted in the last ten or twelve years, and where special precautions have not been taken to guard against its introduction. Many of our people feel that it is a great deal worse than the notorious gypsy moth, but they should remember that we have not yet experienced a real attack of the moth such as it is capable of making, and that this pest is omnivorous in its appetite, besides causing a great deal of personal discomfort in crawling over and into everything while the scale has very few food plants and remains unnoticed except in so far as it destroys the trees.

The scale is a tremendous factor and it is revolutionizing fruit growing. The old-fashioned way of planting orchards and expecting them to bear good fruit without care is disappearing. Fruit growing is becoming one of the intensive lines of agriculture. The professional fruit grower with a good up-to-date spraying outfit, a knowledge of how to spray and of other factors of culture and marketing, is going to succeed in spite of the scale, and we may perhaps be compelled to say, will succeed better because of the scale.

There are vast quantities of facts and principles yet unlearned or undiscovered regarding fruit-growing, and the San Jose scale is a force that will compel the fruit-grower to learn many of them. The small fruit-grower and the householder who has only a few trees for his own use is the one on whom the struggle will bear the hardest, but even he, by adopting some of the principles of the large grower and substituting perhaps dwarf trees for standards, will be able to succeed.

The San Jose scale was imported from China into the San Jose Valley, California, about thirty-five years ago and from there it has been carried all over the country in nursery stock, almost before its dangerous character was realized. Unlike the Scurfy and Oyster-shell scales which have troubled the fruit-growers for a century or more, and which lay eggs in the fall of the year that hatch at some definite time the following summer, the San Jose scale lives over the winter in the larval stage, and after maturing in the spring produces young which hatch eggs inside the body of the female. This process may go on for five or

six weeks before the insect dies. The larvae soon settle down, insert their sucking tube into the bark and, in a few days, secrete a waxy covering or scale which protects them from injury. The young mature in about 35 or 40 days and then begin to give birth to a new generation.

The Oyster shell and Scurfy bark scales can be treated with an ordinary kerosene emulsion at the time when the eggs hatch in early summer, and if thoroughly done, every one of the young scales will be destroyed. This method cannot be used for the San Jose scale. Solutions which would destroy the female scales would be too strong for the foliage of the tree. It is possible to kill the young larvae with the same solutions as used for other scales, but it is evident from the life history already given that applications would have to be made once or twice a week throughout the summer in order to reach all that are born before they have time to form the protective covering.

As the insect has few enemies, most of the young scale live to mature and reproduce and with the several generations which appear during one season, it is possible for one female which winters over to have more than three billion descendants at the end of the season. This illustrates the force of what we wish to impress upon all who expect to battle with this insect on fruit and ornamental stock, that spraying, as ordinarily carried on, is inefficient and almost certain to lead to disappointment and the idea that the scale cannot be controlled. A very few scales which may escape a careless application of the spray remedy may have progeny enough to lead the fruit grower to think, when the fall comes, that the application of spray remedies the previous season was of absolutely no avail, when, as a matter of fact, he may have killed 95 per cent of those wintering over.

The precaution is obvious. Every portion of the tree must be covered with the spray to the very tips of the twigs, and from all sides. This can only be accomplished with a good spraying outfit. The first requisite is a good spray pump with which a pressure of 75 to 125 pounds can be maintained at the nozzle. If the Vermorel type of nozzle is used, this pressure will produce a fine, mist-like spray, which, if intelligently directed, will strike and adhere to all parts of the tree. As an illustration of the efficiency of a misty spray over a coarse one, notice how much more thoroughly a tree is dampened by a heavy fog than by a brisk shower.

The best remedy today is the lime-sulphur wash prepared as follows:

Slake 20 pounds of good stone lime in a small quantity of hot water. While the slaking is in progress, sift into the lime 15 lbs. of Flowers of Sulphur and mix the mass thoroughly. When the ebullition has ceased, add 20 to 25 gallons of hot water and boil from 40 to 50 minutes. Pour through a strainer having 20 to 24 meshes to the inch into a tank or barrel and add water, hot preferably, enough to make fifty gallons. The mixture should be applied while hot, and if any of it is left standing over night, it should be heated before being applied.

Where boiling is impracticable, a good spray mixture can be produced without it by adding five pounds of caustic potash to the lime and sulphur above mentioned when the slaking has ceased. This will, of course, make the mixture more expensive and it also renders it more disagreeable to handle.

When it is impracticable to make the lime-sulphur wash in any of these forms, fairly good results can be obtained by the use of one of the miscible oil sprays now on the market. Scalecide, is one of the best of these and Kill-o-Scale is another which is quite highly recommended. These oil sprays mix readily with cold water and are very easily applied.

To recapitulate: Fruit-growing is becoming a business which will require close attention and thorough knowledge of all facts and principles whereupon depend a successful fight against fungous diseases and injurious insects and the production of first-class fruit. Eternal vigilance is the price of good fruit, and we may well add, "To the victor belong the spoils."

The spraying must be done with good spray mixtures and up-to-date apparatus. The work must be thorough. If a wind blows, only one side of the tree can be sprayed. The other side must be treated when the wind is from the opposite direction. Have pressure enough to produce a fine mist as the spray leaves the nozzle. Cover every spot on the tree to the very tips of the twigs. A good sprayer will do this without deluging the tree so that the liquid runs down the stem or drips from the branches.

Use the boiled lime-sulphur wash if possible. If not, use lime-sulphur potash; or one of the miscible oils. Spray as soon as the leaves have fallen in the autumn, and if the trees are badly infested, again just before the leaves come out in the spring.

A. E. STENE,

Rhode Island College of Agriculture and
Mechanic Arts, Kingston, Rhode Island.

John P. Cleary has accepted a position as auctioneer at the Fruit Exchange, Jay street, New York city.

SLUG SHOT

KILLS INSECTS in Garden or Greenhouse. Sold by Seed Delivers. For pamphlet address

B. HAMMOND, Fishkill-on-Hudson, N. Y.

YOU WANT SHRUBS

WE WANT YOUR —ORDERS—

100,000 BERBERIS Thunbergii.....	\$1.00 to \$10.00	Per 100	300 Golden Elders, extra 3 ft.....	Per 100
2,000 CORNUS SANGUINEA and Alba, 4 to 5 ft.	9.00		25,000 Ligustrum Iibota Seedlings, 2 yrs for lining out	\$10.00
6,000 LIGUSTRUM Iibota, 2½ to 3 ft. heavy	10.00		500 Golden Willows, 4 to 6 ft.	2.00
3,000 SPIREA L. Van Houte, 4 ft. fine.....	10.00		2,000 Poplars Lombardy, 8 to 10 ft.....	12.00
5,000 LIGUSTRUM Iibota, 2 years	5.00		Low Branched, 10 to 12 ft.....	15.00

Etc., Etc., Etc.

Send for our price list of AZALEAS, RHODODENDRONS, KALMIAS, MAGNOLIAS and EVERGREENS

The CONTINENTAL NURSERIES, Franklin, Mass.

Send us your list of Wants in Shrubs and Perennials and mention Horticulture when writing.

SMALL FRUITS AND THEIR RELATION TO THE HOME GARDEN.

It is a source of surprise that the householder and gardener are apt not to give the care and attention to the growing of small fruits that is given to the vegetable and flower garden, and it is very hard for a fruit grower to understand the reason for this. Possibly the land owner does not care for this class of fruit, or perhaps he thinks it is too hard to grow; at any rate we do not find these fruits as common in our gardens as they were fifty or more years ago. To be sure the strawberry is grown almost everywhere, but in how many gardens will you also find raspberries, blackberries, currants, gooseberries, etc. You may see a few bushes of each of the above but not in the great variety that would insure a long season of these delicious fruits. Few people realize what a long period these fruits will cover. Beginning with the strawberry June 15th, and ending with the blackberry September 10th, we can cover a season of the year when no other fruit, with the exception of the peach, can at all compete with these small fruits. The strawberry can be had from five to six weeks by planting early medium, and late varieties, combining all the best flavors and most attractive berries. Then raspberries, from early to late, a season of six weeks, which, with red, black, and yellow varieties, are among the most attractive summer fruits. Red currants, while largely used for preserving, are a very delicious and refreshing fruit when thoroughly ripe, and used together with one-third of the white variety cannot be surpassed for the table on a hot day. Gooseberries too are but little grown in the home garden chiefly because but little known, and they really should be classed as one of our best fruits. Thoroughly ripe gooseberries are most delicious eating, are easily grown and take up but little room in the garden, for one bush will produce eight or ten quarts of the fruit.

The matter of space one has at his command must of course have a great deal of consideration before being planted, but a well planted garden can be made to accommodate all these small fruits mentioned and still leave room for a few apple, pear, peach and plum trees. Currants and gooseberries will stand a good deal of shade so plant them under the larger trees;

10,000 AMERICAN ARBORVITAE (*Thuja Occidentalis*)

Each tree grows wide apart and splendidly developed on all sides. So bushy that for hedges or screens they will go almost twice as far apart as ordinary Arborvitae will. They have been frequently transplanted and are supplied with an abundance of fine fibrous roots. Can be dug and shipped with ball if desired.

	per 10	per 100
3-4 ft. size.....	\$6.00	\$50.00
4-5 ft. size.....	7.50	60.00

Prices for dealers only. Packing additional at cost. 25 or more at the rate per 100.

Send to us for Ornamental Nursery Stock of all Kinds.

THE WM. H. MOON CO., Morrisville, Pa.

FRUIT and VEGETABLE PLANTS

If you want Fruit Plants, Trees or Vines for the Garden or for Commercial Purposes write to Wilfrid Wheeler, Concord, Mass., who has a complete line of Strawberry plants, Raspberry and Blackberry roots, Currant and Gooseberry bushes, Grape vines, Apple, Pear, Plum and Peach trees. All clean stock and true to name.

Enough fruit plants can be furnished to plant a small Home Garden for \$3.75 or a larger one for \$6.00. Write for catalogue to

WILFRID WHEELER, CONCORD, MASS.

then a fence or a hedge is an excellent place for blackberries or raspberries. Strawberries need the sun and lots of it but you surely can spare a sunny spot for that fruit and grow fewer potatoes and cabbages. Fruit always seems so much more attractive to grow than vegetables, but this may simply be a personal prejudice. You however will agree with me in thinking that fruit tastes a great deal better when you are out working in the garden than, for instance, a beet or a squash or an onion.

Don't let this year go by without planning for the home fruit garden and give it the best care you can. It takes only one year to get most of these fruits into bearing condition, and once established you have your garden

as long as you will care for it. We need more fruit knowledge among our people. Too many of us are too hurried and busy to give the subject even a passing thought, much less intelligent study. Then too we see so much fruit offered for sale on our streets that the fact that we can grow our own is not impressed upon us. A person, once having grown fruit for himself though, will never return to the store article. Plant an abundance of these good things with which nature has so richly endowed us, and enjoy them to their fullest extent.

WILFRID WHEELER.

William H. Maher has the contract to keep the parks of Newport, R. I., in order for a year.

SEED TRADE

Advices just to hand indicate an improvement in crop conditions in California. The rains have ceased, at least temporarily, and work can be resumed in the fields; and it is high time, as weeds are choking the crops. After conditions become settled, and an intelligent inventory of the damage done can be taken, we can get a fairly accurate estimate of the situation.

While the floods were rampant and conditions at their worst, opinions of even cool-headed men were more or less hysterical, and this is said without any wish to minimize the damage, as beyond all doubt it has been very serious, quite possibly fully as bad as imagined. In the meantime planting is going on, and if fair weather continues, prospects will grow brighter, and what is not already irrevocably ruined, may prove less seriously damaged than feared.

Reference was made in last week's Seed Trade Notes, to the danger of the concentration of crops. The trade received a severe lesson of what this may mean in the failure of the vine seed crops in Nebraska a few years since. Due to congenial soil and climate and the still more important factor of prices, the growing of vine seeds had become concentrated in the vicinity of Waterloo, Neb., to such an extent that fully seventy-five per cent. of the cucumber, melon and squash seeds used in this country and Canada were produced in Nebraska.

The prices at which these goods were grown in the vicinity of Waterloo, made it almost impossible for other sections unfavorably placed in the matter of soil and climate, to compete, the result being a gradual concentration of the crops at that point, until, as stated above, fully seventy-five per cent. of all the vine seeds used in the United States and Canada were produced around Waterloo; then when the failure of these crops followed two years in succession, prices advanced from five hundred to one thousand per cent.

Much of the seed sold was practically useless, and the firms sending out this junk would better have thrown it into their furnaces, both from the monetary point of view as well as in the matter of reputation.

What occurred in Nebraska in 1903-4, to the vine seed crops, occurred last year in California in a less aggravated degree to the onion seed crops, and unless conditions are greatly exaggerated, promises to be much more serious the coming season. In short, the outlook is regarded by most experienced seedsmen as the worst in a quarter of a century.

The concentration of onion seed growing in California was due to precisely the same causes as brought about the concentration of vine seed growing at Waterloo; but even a larger percentage of the onion seed used is grown in California, fully ninety per cent. of the total being grown there.

What will follow on the heels of the extremely short crop of last year, should this year's crop prove a general failure, can be readily imagined, and it can only be hoped that this will not be the case.

Following the two years' failure of the vine seed crops in Waterloo, they have been more widely and generally grown, and no doubt the same results will follow this year's failure, or very short onion seed crop, but concentration will again take place, if not at Waterloo and in the Santa Clara valley, then in some other section, whenever the combination of soil and climate assuring good crops is found, coupled with the yet more important matter of low prices.

The sale of onion seed to the Department of Agriculture two years ago by prominent California seed growers at 17 and 18c. per lb., was a blunder in many respects. For one thing it established absolutely false standards of values at Washington, making it impossible for any one to get a reasonable price for onion seed from the Department, and giving rise to a false idea of the enormous profits made by seedsmen. For that matter, the same indictment can be brought against them on many other seeds grown in California which have been sold to the National Department of Agriculture at from one-third to half the lowest prices ever named to seedsmen, and the Department will not purchase many lines of seeds unless at about this basis of values. More may be said along this line at some future time.

In the meantime active preparations are making for the planting of peas, the acreage of which will be the largest ever planted, and with an average yield the crop will be the largest ever harvested.

Arrangements for the program of the forthcoming annual convention of the American Seed Trade Association, to be held at the Hotel Astor, Times Square, New York City, June 25th, are progressing very well. Among some of the most interesting matters already arranged for are the following:

"Reminiscences of the Seed Trade," by Mr. F. W. Bruggerhof, of J. M. Thorburn & Co. Mr. Bruggerhof has had an active experience of more than fifty years in the trade, and those who are fortunate enough to have a personal acquaintance with him feel sure that his paper will be a most interesting and valuable one.

Dr. B. T. Galloway, Chief of the Bureau of Plant Industry, of the U. S. Department of Agriculture, has agreed to give a talk on "What the Department of Agriculture is doing for the Seed Trade."

Mr. J. Horace McFarland will prepare a paper on "The Twentieth Century Seed Catalogue." From Mr. McFarland's knowledge and experience in this particular line, his treatment of the subject should be both interesting and profitable to the seedsmen.

Mr. S. F. Willard will deliver a paper on "The History of the American Seed Trade Association," giving a review of the principal and most notable events of the Association's past history.

The convention to be held in New York is the twenty-fifth anniversary of the formation of the American Seed Trade Association, and efforts are being put forth to make it a most notable occasion, in celebration of that event. The selection of the Hotel

Astor by the local Committee on Entertainment is a very happy and fortunate one. This hotel is one of the most up-to-date in New York City, with airy roof gardens, etc., centrally located, and its selection should add very much indeed to the success of the convention.

SUMMER SCHOOL OF HORTICULTURE.

The Summer School conducted by the Massachusetts Agricultural College at Amherst, Mass., opens on July 8, 1907, and continues four weeks. There will be morning lectures comprising four regular courses of study of 20 exercises each, one each day throughout the term; afternoon exercises from two to five o'clock; three Saturday excursions, and about two evening lectures.

COURSES OF STUDY.

Course 1. Pedagogy of agriculture. Instructor to be announced.

a. Pedagogy of agricultural subjects in general. b. Pedagogy of nature study. c. Pedagogy of school and home gardens.

Course 2. Plant structure and plant life, in charge of Prof. E. A. White.

a. Plant structure and plant life. b. Arboriculture. c. Forestry.

Course 3. Plant culture, in charge of Mr. E. H. Scott.

a. Propagation of plants. b. Tree planting. c. Soils. d. Fertilizers. e. Tillage (purposes, methods, tools). f. Farm crops. g. Orchard and garden crops. h. Plant diseases and spraying.

Course 4. Animal life, in charge of Dr. J. B. Paige, assisted by Dr. H. T. Fernald, and Mr. E. H. Forbush.

a. Domestic animals. b. Poultry. c. Bees. d. General biology. e. Insect life. f. Bird life.

AFTERNOON EXERCISES.

School gardens; Practical gardening, 4 exercises each, Mr. Hemenway. Nature study tramps, 3 exercises, Mr. Monahan. Forestry, Prof. White; Geology of soils, Mr. Scott; Dairy practice, Prof. Cooley; Field crops, grass crops, Prof. Brooks; Orchards and gardens, nurseries, Prof. Waugh, one exercise each.

An example of the manner of conducting the practical exercises follows:

CROSSING NASTURTIUMS.

1. Study structure of flower. Draw vertical section. Note especially (a) position of nectaries, (b) position of stamens, (c) protecting hairs.

2. How is the nasturtium pollinated naturally?

3. What is the character of the pollen? 4. How can you determine when the stigma is receptive?

5. Are pollen and stigma ready simultaneously in a given flower?

6. Practice emasculation. When should it be done?

7. Practice crossing. When should it be done? How is the best way to transfer pollen?

8. Do emasculated or crossed blossoms require protection? Give the reasons.

Correspondence should be addressed to the Dean, F. A. Waugh, Amherst, Mass.

BEGONIAS and GLOXINIAS

BEGONIA

TUBEROUS ROOTED
Single White \$.50 \$3.00
Red50 3.00
Rose50 3.00
Yellow50 3.00
Orange50 3.00
Mxd Colors .40 2.50
Double colors, separate or mxd. 1.00 6.00

GLOXINIAS

Mixed60 4.00
Sep'te colors .80 6.00

W. Elliott & Sons
201 Fulton St., N. Y.



STATEMENT OF PLANT IMPORTS.

There were entered at the port of New York during the week of April 9 to 15, inclusive, the following plants.

From Holland: C. C. Abel, 7 cs. bulbs; H. F. Darrow, 27 cs. plants; Wm. Elliott & Sons, 12 cs. do.; McHutchison & Co., 5 cs. trees, 110 pgs. plants; P. Ouwerkerk, 3 cs. trees, 500 loose plants; F. R. Pierson Co., 29 cs. trees; August Rolker & Sons, 52 cs. plants, 1 bale do.; Stumpp & Walter Co., 1 cs. trees; Sundry Forwarders, 141 pgs. plants; Order, 1 cs. roses.

From Belgium: H. F. Darrow, 4 cs. bulbs; Hussa & Co., 580 tubs laurel trees; Ter Kulle, 22 tubs laurel trees, 3 cs. plants; Vaughan's Seed Store, 1 cs. bulbs; Sundry Forwarders, 6 cs. plants.

From France: C. C. Abel, 10 pgs. plants; H. F. Darrow, 25 pgs. seed; Sundry Forwarders, 31 pgs. plants; Order 279 pgs. do.

Via Southampton: McHutchison & Co., 4 cs. trees; Sundry Forwarders, 9 cs. trees, 12 cs. plants, 9 cs. nursery stock.

Via Liverpool: Siebrecht & Son, 1 cs. trees; Maltus & Ware, 2 cs. trees.

Via Glasgow: American Express Co., 10 hampers plants.

From Germany: A. Held, 1 cs. orchids.

Double Sweet Scented CHINESE PEONIES

Exceptionally Fine Roots, 2 to 7 Eyes
Double White ... \$1.50 per doz.; \$8.00 per 100
Double Pink 1.25 per doz.; 7.00 per 100
Double Red 1.25 per doz.; 7.00 per 100
Double Mixed ... 1.00 per doz.; 6.00 per 100

Write for Peony List.

JOHNSON SEED COMPANY
217 Market St., PHILA., PA.

NEW STOCKS FLOWER SEEDS for FLORISTS

Wholesale Catalogue Ready. Send for it today. But first read our advertisement on page 105 in the Horticulture for January 26, 1907. It is worth reading.

James Vick's Sons
Seedsmen Rochester, N. Y.

FISKE'S SEEDS

For Immediate Delivery

Also

GLADIOLUS BULBS

In variety and mixture

Our 1907 Catalogue Mailed Free

H. E. FISKE SEED CO., Faneuil Hall Square, BOSTON

Comet Tomato

Those who force tomatoes should give "Comet" a trial. This variety has been the talk of gardeners around Boston the past season. Those who have seen it growing declare there's nothing to compare with it.
Seed, \$5.00 per oz. Trade packet \$1.00.

WILLIAM SIM, Cliftondale, Mass.

CAULIFLOWER'S CABBAGE

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

C. C. MORSE & CO.

171-173 Clay St., SAN FRANCISCO, CAL.

**The Largest Seed Growers
on the Pacific Coast**

Summer Flowering Bulbs

CANNAS

Strong roots with two and three eyes at a special price to clear.

Alphonse Bouvier	Alsace
Chas. Henderson	Austria
Allemania	Chicago
Egandale	F. Vaughan
Italia	Mme. Crozy

Philadelphia

and other sorts. Any of the above,
\$2.50 per 100; per 1000, \$20.00.

CALADIUMS

	100	1000
Monster Bulbs	\$10.00	\$95.00
Mammoth "	7.25	70.00
First size "	5.00	47.50
Second " "	3.00	27.50

DAHLIAS

We have a large assortment of choice named sorts as **Double, Cactus, Single** and **Fancy** varieties. Strong clumps, \$1.00 per doz.; per 100, \$8.00.

GLADIOLUS

Strong bulbs which will bloom this season.

	100	1000
Scarlet and Crimson	\$1.00	\$9.00
Pink and Variegated	1.25	12.00
Striped	2.00	19.00
White and Light	1.75	15.00
Yellow	2.50	24.00
Childsii Mixed	2.00	18.00
Groff's Hybrids Mixed	1.50	14.00
Choicest Mixed	1.25	10.00
Fine Mixed	1.00	8.00

WRITE FOR A COPY OF OUR WHOLESALE PRICE LIST,
ALSO GENERAL SEED CATALOGUE.

HENRY F. MICHELL CO., 1018 Market St.
Philadelphia, Pa.

Thorburn's Seeds

... OUR ...

Wholesale Catalogue

for florists and market gardeners is now ready and will be sent free to all who ask for it.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere.
Cold storage Lily of the Valley Pips. Best possible grade, in cases of 1000 and 3000 pips each at \$12.00 per 1000.
Advance orders now being booked for Bermuda Easter Lilies. Send for prices.

J. M. THORBURN & CO.
33 Barclay St., through to 38 Park Place
NEW YORK

High Grade Seeds for

**Market Gardener,
Florist and Farmer**

Catalogues Free

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS

RAWSON'S HIGH GRADE SEEDS

for the most critical

**GARDENER, FARMER
or FLORIST**

Catalogues mailed free

W. W. RAWSON & CO.
5 Union St., BOSTON, MASS.

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed
only to those who plant for profit.

PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a large supply of exceptionally fine quality.

For the Lawn,
The Greenhouse,
For the Herbaceous Garden,
For the Flower Garden,
For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,
6 and 7 So. Market St., BOSTON.

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY & CO.

32 & 33 So. Market St., BOSTON

BRIDGEMAN'S SEED WAREHOUSE

RICKARDS BROS.

Props.

37 East 19th St., NEW YORK CITY

CLIMBING ROSES

CRIMSON RAMBLER

Large heavy plants, two years old, 3 to 5 feet, \$1.75 per 10; \$15.00 per 100. 4 to 6 feet, \$2.00 per 10; \$18.00 per 100.

The Sensational New Rambler Rose LADY GAY

"A seedling from the popular Crimson Rambler, which it resembles in habit and general effect. The flowers are of a delicate cherry-pink color, which fades to soft white." Strong plants, field-grown, \$3.50 per 10; \$30.00 per 100.

AMPELOPSIS, CLIMBERS, Etc.

AMPELOPSIS

AMPELOPSIS VEITCHII (Boston Ivy), extra strong imported vines, three-year-old, \$2.00 per doz.; \$15.00 per 100.

AMPELOPSIS MURALIS, more rapid grower than the foregoing, larger foliage, \$3.00 per doz.; \$20.00 per 100.

QUINQUEFOLIA (American Ivy or Virginia Creeper). Good for covering walls, verandas, or trunks of trees; affords shade quickly, 25c. each; \$2.50 per doz.; \$18.00 per 100.

CLEMATIS

HENRYI, pure white; extra large.

JACKMANI, purple.

ALBA, white.

SIEBOLDII, lavender.

VILLE DE LYON. The finest of all reds; flowers brilliant carmine red. It is equally as good as Mme. Edouard Andre, but contrary to this one, is a very free-growing variety.

All the above Clematis in extra strong plants, \$3.00 per doz.; \$20.00 per 100.

CLEMATIS PANICULATA, strong 2-year-old plants, \$1.25 per doz.; \$12.00 per 100.

ARTHUR T. BODDINGTON, 342 West 14th Street, NEW YORK CITY

OTHER CLIMBING ROSES OF MERIT

PAUL'S CARMINE PILLAR. One of the most attractive Climbing Roses. Two-year-old, field-grown, \$1.75 per 10; \$15.00 per 100.

MARECHAL NIEL. Color bright rich golden yellow, field-grown, \$1.75 per 10; \$15.00 per 100.

GLOIRE DE DIJON. Color buff, orange center, very sweet-scented, field-grown, \$1.75 per 10; \$15.00 per 100.

ARISTOLOCHIA SIPHO

DUTCHMAN'S PIPE, strong field-grown, \$3.50 per doz.

WISTERIA SINENSIS

Extra strong field-grown plants.

BLUE, \$3.50 per doz.; \$25.00 per 100.

WHITE, \$5.00 per doz.; \$40.00 per 100.

HONEY-SUCKLE

Extra strong field-grown plants, 5 feet long, many branches.

COCCINEUM. Scarlet.

HALLIANA. Yellow.

PERICLYMENUM. White.

SEROTINUM BELGICA (Monthly Dutch).

Red. \$3.00 per doz.; \$22.50 per 100.

AZALEA MOLLIS

Most attractive in the shrubbery; also extensively forced on account of the brilliancy of colors. \$5.00 per doz.; \$40.00 per 100. Half specimens, \$7.50 per doz.; \$55.00 per 100.

HYDRANGEA PANICULATA

GRANDIFLORA

Two-year-old, 3 to 4 branches, bushy, \$1.50 per doz.; \$10.00 per 100.

—ORCHIDS—

Some of the varieties we shall import this spring: Cattleyas, Trianae, Labiata, Mossiae, Mendellii, Speciosissima, Gigas, Schroederæ; Dendrobiums, Nobile, Wardianum, Phalaenopsis; Vandas, Cerealea, Kimballiana; Oncidium Varicosum; Laelias, Anceps, Autumnalis, Albida. Write for prices on above.

CARRILLO & BALDWIN, SEGAUCUS, N. J.

ORCHIDS Importations, 1907

Save money and get our quotations on Cattleya labiata, Trianae, Percivaliana, Mossiae, Mendellii, Schroederæ.

JULIUS ROEHRS CO.

Largest Orchid growers and importers in U. S. RUTHERFORD, N. J.

Orchids for Spring Delivery

Cattleyas, Laelias, Oncidiums, etc.

Write for price list. Finest quality of Peat and Moss and Orchid Baskets on the market.

(Give me a trial order.)

Joseph A. Manda

191 Valley Road, West Orange, N. J.

ORCHIDS

Arrived in fine condition a large shipment of

Cattleya labiata, Dendrobium Wardianum and Oncidium luridum.

Write for Price

LAGER & HURRELL, SUMMIT, N. J.

ORCHIDS NOW READY FOR IMMEDIATE DELIVERY

Cattleya Trianae, C. Trianae, var. Papayan, C. Schroederæ, C. Sanderiana. To arrive Cattleya gigas, C. Aurea, C. Mendellii. Call for quotations from us also for choicest varieties of Odontoglossum, Piluma, Cypridium, Phalaenopsis, Dendrobium and Vanda. Extremely rare Vanda andersoniana for July delivery. A. H. LD, 11-19 William St., NEW YORK

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

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ASPARAGUS

Plumosus, Robustus and Sprengerii

Three inch stock ready for fours. Send ten cents for samples and prices.

ALBERT M. HERR, Lancaster, Pa.

WHITMANI

2 1-4 inch, \$10 per 100

BOSTONS

2 1-4 inch, \$3.00 per 100

H. H. BARROWS & SON whitman, Mass.

Giant Pansy Plants

Strong, Bushy, Transplanted. Fine, healthy stock. \$9 per 1000. Cash with order.

WM. DOBBERTIN

595 Joseph Ave. ROCHESTER, N. Y.

If you want QUALITY

and are willing to pay for quality, then ask us for **Bulbs, Valley**, all kinds of plants and Nursery stock as **Roses, Evergreens, Buxus, Palms, Azaleas, Araucarias, etc.**

JOHN SCHEEPERS & CO. 4 and 6 Old Slip NEW YORK CITY



Cypripedium Reginae

Showy Ladies' Slipper

The rarest and most beautiful of our Hardy Orchids.

By Express or Mail prepaid

	Each	Per Ten
1-2 crowns (strong clumps),	55c	\$4.50
3-4 " " " " " " " " " " " "	75c	5.50

HARLAN P. KELSEY, Owner, Salem, Mass.

The Most Beautiful

American Gardens

have acquired their distinctiveness and charm through proper use of our exquisite NATIVE AMERICAN PLANTS.

In no other way may the harmony and unity of American landscape be preserved and enhanced, while

A Too Large Use of Exotics

however choice, results in harsh effects and clashes of color and form,—in other words, "plants out of place."

Highlands Nursery

Is the home of the gorgeous and rare Azaleas of the Carolina mountains.

Kelsey's Hardy American Plant catalog the finest published is free.

JAPANESE LILIES, IRIS, PÆONIES

We have a small surplus of

Herbaceous Paeonies, cases of 84 strong clumps of the 12 best Japanese varieties, 7 clumps each variety. \$15.00 a case.

The YOKOHAMA NURSERY CO., Ltd., 31 Barclay St., N.Y.

MOON VINES

(Ipomoea noctiflora, A. W. Smith, originator), best pure white, largest and most fragrant moonvine in the world. I have made a specialty of them for the last 15 years, and am known as the moonvine grower of America, and grow yearly about 20,000 2 1/2 in pots, \$5.00 per 100. Now ready.

CODFREY ASCHMANN

1012 Ontario St. Philadelphia, Pa.

In the advertisement of Harlan P. Kelsey, Salem, Mass., in our issue of April 13, the prices of Cypripedium reginae should have been listed as "per 10" instead of "per 100". They are correctly given in advertisement on this page.

SEASONABLE STOCK**In A No. 1 Condition**

From 2 in. Pots 100 1000

Hardy Chrysanthemums, Large-flow- ering or Astel.	\$3.00	\$25.00
Hardy Chrysanthemums, Small-flow- ering or Button.	2.00	18.00
Geraniums, Standards and Novelties.		
Alternantheras, 6 varieties, strong.	2.00	18.00
Lemon Verbenas, (Aloysia citrodora)	2.00	18.00
Verbenas, white, scarlet, purple and striped	2.00	17.50
Petunias, Dreer's Single.	2.00	17.50
" Double, fringed.	3.00	25.00
Salvias	2.00	17.50

And other Bedding Stock. Send for List.

Cash with Order, Please.

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GERANIUMS

Our selection \$18.00 per 1000, composed of the follow-
ing varieties all to name: S. A. Nutt, Poitevine, La
Favorite, Perkins, Brett, Viaud, Castellane, Doyle and
several others out of a 2-4 in. pot, with or without soil.

2-4 in. pot	per 100	Rooted Cuttings	per 100
Fuchsias in variety,	\$3.00		\$1.00
Heliotrope,	2.50		1.00
Sweet Alyssum,	2.00		1.00
Lobelia,	2.00		1.00
Ageratum,	1.50		.50
Rose Geranium,	2.00	fine plants	.60
Coleus in variety,			.60
Coleus Golden Bedder,			.60

Cash must accompany order.

J. E. FELTHOUSEN

154 Van Vranken Av., SCHENECTADY, N. Y.

GERANIUMS

From 2½ in. Pots	Per 100
S. A. Nutt.	\$3.00
John Doyle	2.50
MIXED containing S. A. Nutt, John Doyle, Poitevine, Dbl. Gen. Grant and White	2.25
Rooted Cuttings	1.00
Ageratum, strong, bushy plants	2.50
Salvia Bonfire	2.50
Petunia, California, Single	2.50
Verbena, finest mixed	2.50
From flats once transplanted	1.50

Cash with Order, Please

R. L. GOINSALVOS, Waltham, Mass.

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and Ready Reference Guide. You
will find some good offers there also.

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Araucarias, Aspidistras, Ferns suitable for
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a wonderful bloomer; flowers from four to four and
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ple, nicely fringed; an early bloomer; fine seller for
Decoration Day; planted outdoors will bloom all
summer. Strong plants, ready Feb. 15, \$1.50 per
doz.; \$10.00 per 100; \$90.00 per 1000. Rooted Cut-
tings, \$5.00 per 100; they will make fine 4 in. plants
in full bloom by Decoration Day.

VARIETATED VINCAS, 4 in. pots, strong plants,
\$8.00 per hundred.

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16 to 18 inches high, 73 cts. each;	\$8.00 per dozen;	\$65.00 per 100
20 to 24 " " " \$1.25 " " "	12.50 " " "	100.00 " 100

BOXWOOD EDGING—Very heavy bushy stock, 5 to 6 inches high, the finest we have ever handled, \$5.00 per 100; \$45.00 per 1000; special prices for large quantities.**HYDRANGEA PANICULATA GRANDIFLORA**—Extra heavy bushy plants, 24 to 30 inches high, \$1.25 per dozen; \$10.00 per 100.**CLEMATIS PANICULATA**—Extra heavy two year old roots, \$1.25 per dozen; \$8.00 per 100; \$70.00 per 1000. Strong one year old roots 75 cts. per dozen; \$5.00 per 100; \$40.00 per 1000.**CLEMATIS, Large Flowered Hybrid Varieties**, such as Jackmani, Henryi, Duchess of Edinburgh, etc., in extra heavy two year old stock, \$3.00 per dozen; \$20.00 per 100.**AMPELOPSIS VEITCHII**—Strong two year old plants \$1.50 per dozen; \$10.00 per 100; three year old plants \$2.00 per dozen; \$15 per 100.**HARDY ENGLISH IVIES**—Strong plants in four inch pots, about 3 feet high, \$1.25 per dozen; \$10.00 per 100.**HARDY PERENNIAL PHLOX**—All the popular standard varieties in strong one year old field grown plants, now in three inch pots, far superior to winter propagated stock as usually sent out. 75 cts. per dozen; \$5.00 per 100; \$40.00 per 1000.**HARDY PERENNIALS**—The greatest assortment and largest stock in the country; write to us for anything you require in this line.**STRONG TWO YEAR OLD ROSES**—We make a specialty of strong two year old Roses, field grown stock, which during the winter months has been potted up into 5 and 6 inch pots, stored in cold houses and is now breaking into growth nicely, just the kind of stock to sell to your retail customers for immediate planting.

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Dracaena Terminalis, finely colored, 4 inch p'ts,	-	-	\$4.00 per doz.
" " " 5 inch pots,	-	-	5.00 "
Cocos Weddelliana, fine plants, 3 inch pots,	-	-	2.00 "
Kentia Beimoreana, " 24 to 28 inches high,	-	-	9.00 "
" " " 18 to 20 " "	-	-	7.50 "
Araucaria Excelsa, " 15 to 18 " "	-	4 tiers,	7.50 "
" " " 20 to 24 " "	-	5 tiers,	10.00 "
Pandanus Utilis, " 5 inch pots,	-	-	4.50 "

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and 9 Chapman Place,

See our Greens Advertisement on page 539.

L. D. Telephone, Main 2618.

TWO GOOD TAMARISKS.

The Silver Tamarisk.

I see most of the Eastern catalogues do not mention this. It was introduced by Professor Budd. I have had ten kinds of tamarisks. This is the most beautiful and the hardiest of all, doing well in Minnesota. The Russian, the silver, the Odessana and Amurensis are all one and the same with different names. I have discarded all but this which is well adapted to the semi-arid regions. Thousands have been sold in Colorado, where they give the best of satisfaction.

C. S. HARRISON.

Tamarix hispida aestivalis.

A new variety raised from Tamarix Kashgarica, more vigorous and not so compact as the type. In July the branches are covered to the half of their length with numerous sprays of flowers of a bright carmine pink. Blooms two months before Tamarix hispida. Awarded a first prize at the Paris International Exposition of 1900. The plumes will be found valuable for florists' decorative work. G. C. W.

PUBLICATIONS RECEIVED.

Bulletin No. 3 of the American Association of Park Superintendents has come to hand. It contains instructive articles on The Water Garden, The Herbaceous Garden, Bulbs, Play Ground Management and Cement Concrete Construction by eminent members of the Association. Copies may be obtained from the secretary, Mr. F. L. Mulford, Harrisburg, Pa., for a small price.

Bulletin 45 of the Storrs Agricultural Experiment Station, Storrs,

Conn., is by C. D. Jarvis, and deals with the apple leaf miner, a pest of the apple tree, first described in 1860 by Dr. Blackenridge Clemens who named it Tischeria malifoliella. Since that time it has received frequent mention in entomological literature but has not been regarded as a serious pest until last year, when it was reported as doing much injury in Vermont, many partially defoliated trees being observed as a result of its ravages.

Writing in the annual publication of the National Carnation Society of England, Mr. James Douglas undertakes the defence of that society in reply to those who had criticised unfavorably its action in refusing to provide for the so-called tree or winter-flowering carnation in its exhibitions, at the time the American varieties of the latter were beginning to make a sensation in Great Britain. He represents that the National Carnation Society was formed because the hardy summer-flowering carnation and other "florists' flowers" were hopelessly at a discount, whereas Covent Garden is now and has always been overflowing with winter-flowering carnation blooms. He asks: "Where, then, is a need of a special society for their encouragement?" The best answer to his query, viewing the situation at long distance, is the popularity of the American type of carnations among the flower buyers and the splendid success of the exhibitions of the Winter-flowering Carnation Society, organized because of the proscriptive stand taken by the old society. From our viewpoint the National Carnation Society has made a costly mistake.

SHAPE OF ROSE BUSHES.

The advice so often given to cut back rose shoots to a bud pointing outwards is good, as may be seen from a glance at what is called an "open" bush. Each spring the new shoots have grown outwards, leaving the centre of the plant open and free from growths, with the result that the wood gets thoroughly ripened. Where the shoots grow inwards and cross each other, they do not have the same chance of growing and ripening properly. It is not always possible to find an outside bud just where one would like to prune back to, but it is preferable to cut the shoot rather shorter or leave it rather longer, in order to prune to a bud pointing away from the centre of the bush.—*The Garden.*

OBITUARY.

May M., wife of Fred W. Pape, of St. Louis, Mo., died on April 7.

Chester Belding, for many years a florist in Middletown, N. Y., died April 9, at the age of seventy-five.

John H. Brierly of Boulder, Colo., died on April 1, aged 73. He is survived by a widow and two children.

Amasa Kennicott, who passed away on April 7 at his home near Chicago, had devoted his life to horticulture. In 1835 he started in business in Chicago with his brother Flint, who is now president of Kennicott Bros. Co., but withdrew later and became an enthusiastic peony grower. He leaves a widow and three sons.

PERSONAL.

Edward Fenn of Terryville, Ct., is seriously ill.

M. Stauch goes to Pittsburg, Pa., as superintendent for the Pittsburg Rose & Carnation Co.

B. Schroeter and J. F. Sullivan of Detroit are back in harness again after paying homage to Mme. La Grippe.

H. E. George of Pasadena, Cal., has taken a position in the store of Chas. Winsel, and not as a gardener on his estate as before reported in these columns.

H. L. Barnes goes to the N. & A. Institute, Hampton, Va., as horticulturist, in place of F. A. Bartlett, who takes charge of the work at Kilravock Farm, Litchfield, Ct., where nearly 500 acres will be devoted to the raising of fancy apples.

BUSINESS CHANGES.

Charles Schmidt, Harrisburg, Pa., is now located at 313 Market street.

The Maplewood Violet & Nursery Co. is the new name under which the Maplewood Violet House, Lansing, Mich., will be known hereafter. E. A. Zimmerman has purchased a half interest therein and a nursery branch will be added.

The Newport Nursery on Vernon avenue, Newport, R. I., has been purchased by Messrs. Wadley & Smythe. This firm is now engaging in landscape work on a very extensive scale. They expect to make great improvements to the property, which will include the erection of additional greenhouses.

MOVEMENTS OF GARDENERS.

W. M. Tiplady has taken a position at Elmendorf Farm, Lexington, Ky.

H. Athlee goes from the Churchman estate, Indianapolis, to New Bethel, Ind.

Mr. John Nilan, for over 10 years head gardener for J. S. Bailey, West Roxbury, Mass., has resigned, his place being taken by P. Manning.

The Minnesota Horticulturist for April contains obituary notes with portrait of the late Frank Yahnke, a member of the executive board of the Minnesota State Horticultural Society, annual reports of vice-presidents and other interesting matter from the pen of Secretary A. W. Latham of Minneapolis.

In ordering goods please add "I saw it in HORTICULTURE."

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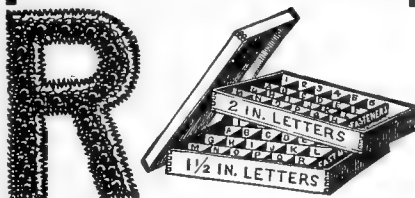
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	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	April 15		April 15		April 15		April 18	
ROSES								
Am. Beauty, Fan. & Sp.	35.00	to 40.00	25.00	to 30.00	20.00	to 25.00	20.00	to 25.00
" Extra.....	20.00	to 25.00	.....	to 20.00	12.00	to 15.00	15.00	to 20.00
" No. 1.....	12.00	to 15.00	15.00	to 18.00	8.00	to 10.00	8.00	to 10.00
" Lower grades.....	6.00	to 8.00	5.00	to 6.00	2.00	to 5.00	2.00	to 6.00
Bride, 'Maid, Golden Gate, F. & S. .	6.00	to 8.00	5.00	to 6.00	10.00	to 12.00	6.00	to 8.00
" " " Extra.....	4.00	to 5.00	4.00	to 5.00	6.00	to 8.00	3.00	to 4.00
" " " No. 1 & lw. gr. .	3.00	to	2.00	to 3.00	2.00	to 5.00	1.00	to 2.00
Liberty, Richmond, Fan. & Sp.	6.00	to 8.00	5.00	to 6.00	10.00	to 12.00	8.00	to 12.00
" Lower grades.....	3.00	to 4.00	2.00	to 4.00	6.00	to 8.00	2.00	to 6.00
Chatenay, Morgan, Fan. & Sp.	8.00	to 10.00	5.00	to 6.00	8.00	to 10.00	4.00	to 6.00
" Lower grades.....	6.00	to 7.00	2.00	to 4.00	6.00	to 8.00	1.00	to 3.00
Killarney, Wellesley, Fan. & Sp. .	8.00	to 10.00	6.00	to 8.00	8.00	to 10.00	6.00	to 8.00
" Lower grades.....	4.00	to 6.00	3.00	to 5.00	6.00	to 8.00	1.00	to 4.00
CARNATIONS								
Fancy and Novelties.....	3.00	to 4.00	2.00	to 3.00	3.00	to 4.00	2.00	to 4.00
Ordinary.....	1.00	to 2.00	.....	to 1.50	1.50	to 2.00	1.00	to 1.50
MISCELLANEOUS								
Violets, Double.....	.....	to .75	.75	to 1.00	.40	to .50	.75	to .75
" Single.....	.....	to .75	.75	to 1.00	.....	to .75	.25	to .75
Cattleyas.....	50.00	to 75.00	50.00	to 75.00	.....	to 75.00	35.00	to 50.00
Sweet Peas.....	.75	to 1.00	.75	to 1.00	.75	to 1.00	.50	to 1.00
Tulips, Daffodils.....	3.00	to 4.00	.....	to 3.00	2.00	to 3.00	1.00	to 2.00
Lilies.....	10.00	to 15.00	12.50	to 15.00	10.00	to 12.00	6.00	to 8.00
Lily of the Valley.....	3.00	to 4.00	.....	to 3.00	3.00	to 5.00	.50	to 3.00
Gardenias.....	50.00	to 60.00	5.00	to 7.50	15.00	to 20.00	10.00	to 25.00
Mignonette.....	4.00	to 8.00	.....	to 3.00	3.00	to 5.00	1.00	to 2.00
Lilacs (too bunches).....	25.00	to 50.00	.....	to 3.00	.....	to 5.00	50.00	to 75.00
Adiantum.....	1.00	to 1.50	.....	to 1.00	1.00	to 1.50	1.00	to 1.50
Smilax.....	90.00	to 25.00	.....	to 25.00	20.00	to 25.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	to 40.00	50.00	to 75.00	to 50.00
" " & Spen. (too bchs.)	35.00	to 50.00	to 30.00	50.00	to 75.00	35.00	to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON The past week was one of the dulllest on record for the Boston flower trade this season. The present week started out with a much improved tone, but at present writing the situation has resumed the inactive condition of last week and stock moves with difficulty. Violets are getting scarce. Roses in all varieties are of unexcelled quality; they have never been better, but the lower grades in job lots are the best sellers.

Not in a long time has **BUFFALO** the market been in such bad condition as the week after Easter, but beginning on the 7th, it brightened up somewhat and a good week's business was had for all. There seemed to be no end of lilies and callas. It has not been a case of cleaning up at cheap price but one of dumping when not even an offer could be had. At the end of the week floral work braced up and helped to consume a small portion. Beauties were in fine quality and all grades could be had at a moment's notice. The demand was better than heretofore and they sold out well. The same may be said of Chateaus. In carnations White Lawson and Lady Bountiful led in price. Enchantress, though of best quality, moved slowly and low prices ruled, due to the enormous supply. There was a fairly good demand on sweet peas, lily of the valley and snap dragon, but still too many daffodils. Murillo tulips sold well; also violets, which are in good color but little fragrance.

Trade seems to have **COLUMBUS** recovered from its after holiday slumber, and the past week has been quite good. Had the weather been decent much more business could easily have been done. We have been receiving exceptionally fine stock the last week, roses and violets not having been so good for a long time. American Beauties led in price. The Richmond rose is having a great run here; in fact, to quite an extent it is curtailing the sales of American Beauty. Carnations are selling at low figures with a few extra quality Enchantress at a slight advance.

Flowers of all kinds **DETROIT** were more than plentiful the first of the week and the street vendors had a chance to reap a harvest. The cold weather of the latter part of the week stopped shipments rather suddenly and we have to face a scarcity worse than that of last winter because most of the bulbous stock is gone.

INDIANAPOLIS During the past week trade in general has been good. Stock in all lines is plentiful. Prices are gradually receding especially on Beauties and tea roses. Violets are nearing the end of their season. Late flowering tulips and Dutch hyacinths are in good quantity and find ready sale. Carnations are to be had in any quantity with quality the very best. Callas and Harrisii are not over abundant and are in good demand. Several good weddings are on the calendar this week which is creating a big demand for lily of the valley, orchids and white lilac. Smilax is holding a good price while other greens find little call. There is quite a brisk trade in the flowering plant line but practically nothing first class to be had owing to the extremely warm weather preceding Easter. Several hard freezes have probably killed most of the fruit around this section.

NEW YORK Inclement weather has helped to shorten up the supply generally, and this, with the revival of activity in the retail line, has brought much better conditions to the wholesale market than had prevailed since Easter. Lilies are still an unmanageable burden, but roses are shortened up considerably; carnations may be called scarce, and all bulbous material has been greatly reduced in quantity. "For this relief, much thanks."

Up to Friday last **PHILADELPHIA** week's market was disappointing although the volume was considerably more than the preceding week. Prices took a decided jump on Friday especially in the carnation line and a healthier tone has been prevailing since. Roses did not improve so much in price but cleaned up much better. Beauties are of very good quality but far too plentiful. Libertys and Richmonds are the best sellers. Brides and Bridesmaids are still draggy but there is some improvement. Sweet peas are still in good demand and one of the most satisfactory stocks on the market. Double violets are shortening up but are still fairly good. Singles done. The dark flowered Cattleya Skinneri is now arriving in generous quantity. Snap dragons and Spanish Iris go well at figures rather surprising considering the low cost of production. Lily of the valley is selling better. Gardenias jumpy—some days fair and then again. The flush of the southern daffodil crop is past and many are thankful, although from the consumer's point of view they are all right. Easter lilies and callas are still plentiful. Good tulips can be had in quantity, mostly from the south, with a few from the east, inside stock.

Trade has been remarkably good the **TWIN CITIES** past week considering the fact that we have had very cold and disagreeable weather. Stock appears to be in abundance as every dealer seems to be loaded up on everything. Roses took quite a drop the middle of the week, but they are now back to normal figures. Carnations are plentiful. Bulb stock is practically off the market, and very few late varieties are offered. It looks as though planting of bedding stock will be greatly delayed on account of the backward season. Already a great many orders have been booked, but nothing can be done, we judge, from present conditions, for some time.

NEWS NOTES.

Gunther Bros., wholesale florists, will remove on May 1 from West 29th street to 114 West 28th street, New York, in the same building as Russin & Hanfling, dealers in supplies, are located.

Gustav Pullman, 918 9th Ave., New York, has filed a petition in bankruptcy with liabilities of \$8,706, of which \$6,900 is on an unexpired lease, and assets of nominal value. The N. Y. Cut Flower Co. is a creditor for \$1,494.

April 12th was Arbor Day in Ohio. We are glad to hear from our correspondents that a large amount of tree planting was done by the people generally. In the public schools the custom has now become fixed, to have the children set out trees and shrubs for the beautification of the grounds.

HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items:

BUFFALO, N. Y.—E. C. Brucker, 385-87 Elliott St.
CLEVELAND, OHIO—A. L. Hutchins, 2220 East 74th St.
COLUMBUS, OHIO—M. B. Faxon, 246 Oak St.
CINCINNATI, OHIO—Frank W. Ball, 31 East 3d St.
DETROIT, MICH.—Frank Danzer, 1487 15th St.
INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.
LOUISVILLE, KY.—F. L. Schulz, Jr., 1325 Cherokee Rd.
MONTREAL—William Cooper, 338 St. James St.
NEWPORT, R. I.—David McIntosh, Ledge Road.
PHILADELPHIA, PA.—George C. Watson, Dobson Bldg., 9th and Market Sts.
TWIN CITIES—John A. May, 163 Iglehart St., St. Paul, Minn.
TOLEDO, OHIO—J. L. Schiller, 929 Prouty Ave.

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WHOLESALE FLORIST
 Finest American Beauties and
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FINE ROSES FANCY CARNATIONS
 A Full Line of All CUT FLOWERS
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Cut Flowers on Commission
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WHOLESALE FLORISTS
54 West 28th St., NEW YORK
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 Consignments of choice cut flowers solicited.
 Prompt payments. Give us a trial.

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 FLORIST**
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**106 W. 28 St.
 NEW YORK**
**TELEPHONE 167
 MADISON SQ.**

All Grades of Flowers for All Grades of Buyers

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Apr. 13 1907	First Half of Week beginning Apr. 15 1907		Last Half of Week ending Apr. 13 1907	First Half of Week beginning Apr. 15 1907
Roses			Carnations, Ordinary .....	.50 to 1.00	1.00 to 2.00
Am. Beauty, fan and sp.	12.00 to 20.00	12.00 to 20.00	Violets, double.. ..	.20 to .40	.40 to .50
extra.	8.00 to 12.00	8.00 to 12.00	single .....	..... to .....	..... to
" No. 1.	5.00 to 8.00	5.00 to 8.00	Cattleyas	35.00 to 40.00	50.00 to 75.00
Lower grades	1.00 to 3.00	1.00 to 3.00	Sweet Peas .....	.50 to .75	.50 to 1.00
Bride, 'Maid, Golden Gate, fan & sp	5.00 to 6.00	6.00 to 8.00	Tulips, Daffodils .....	.50 to 1.00	1.50 to 4.00
" " " Extra.	3.00 to 5.00	3.00 to 5.00	Lilies	3.00 to 4.00	3.00 to 4.00
" " " No. 1 & lw. gr.	.50 to 2.00	1.00 to 2.00	Lily of the Valley	1.50 to 2.00	1.50 to 3.00
Liberty, Richmond, fancy & special	6.00 to 12.00	8.00 to 12.00	Gardenias	6.00 to 12.00	2.00 to 15.00
lower grades ..	1.00 to 4.00	1.00 to 6.00	Mignonette	1.00 to 3.00	1.00 to 3.00
Chatenay, Morgan, fancy and spec.	5.00 to 6.00	5.00 to 6.00	Lilacs (too bunches)	25.00 to 50.00	50.00 to 100.00
lower grades ..	50 to 2.00	1.00 to 3.00	Adiantum .....	.75 to 1.00	.75 to 1.00
Killarney, Wellesley, fan. and spec.	5.00 to 8.00	6.00 to 10.00	Smilax	15.00 to 20.00	15.00 to 20.00
lower grades ..	1.50 to 3.00	2.00 to 4.00	Asparagus Plumosus, strings.....	20.00 to 35.00	20.00 to 35.00
Carnations, Fancy and Novelties..	1.50 to 2.00	3.00 to 4.00	" " & Spren. (too bchs.)	15.00 to 30.00	15.00 to 30.00

ORCHIDS AT ALL SEASONS
WM. STUART ALLEN CO.
 Commission Merchants in Cut Flowers
53 WEST 28TH STREET, NEW YORK
 Telephone 356 Madison Square

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
 Tel. 1462 Madison Sq. New York

JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR
 LARGEST GROWERS**
 A full line of Choice Cut Flower stock for all purposes. Comprises every variety
 grown for New York market, at current prices
TEL. 1998 MADISON SQUARE **49 W. 28 St., New York City**

Walter F. Sheridan
 Wholesale Commission Dealer in
CHOICE CUT FLOWERS
 39 West 28th Street, New York
 Telephone: 3532-3533 Madison Square

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ORCHIDS A SPECIALTY
 THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
CARDENIAS, DAISIES, ROSES AND CARNATIONS
 Telephone
JAMES McMANUS, 759 Mad. Sq. 42 W. 28th St., New York

H. E. FROMENT **Successor to
 Wm. Ghormley**
Wholesale Commission Florist
CHOICE CUT FLOWERS
57 West 28th St. New York.
 Special Attention to Shipping Orders **Telephones: 2200, 2801, Madison Square** **Write for Current Prices**

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WHOLESALE FLORISTS

Furnish best stock at fair prices all the year round Send for quotations on fall orders
 Tel. 798.799 Madison Sq. **44 West 28th Street, New York City**

Alexander J. Guttman
THE WHOLESALE FLORIST OF NEW YORK
43 WEST 28th STREET
PHONES. 1664--1665 MADISON SQUARE
ENOUGH SAID

In writing to Advertisers kindly mention Horticulture



EXTRA FINE FANCY and DAGGER FERNS \$2.00 per 1000

DISCOUNT ON LARGER ORDERS

GREEN and BRONZE GALAX, \$1.25 per 1000, LEUCOTHOE SPRAYS, \$1.00 per 100, \$7.50 per 1000
\$7.50 Case of 10,000 Let us have your standing order for Fern. BOXWOOD 20c lb., 50 lbs. \$8.50

Wholesale Florists
38-40 BROADWAY, DETROIT, MICH.

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Michigan Cut Flower Exchange Incorporated
Send for Our Weekly Price List on Cut Flowers

The Reliable Commission House
Richmond Roses and Rich Flowers
of all varieties

JOS. S. FENRICH

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1891

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REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties
and are dealers in

Glassware Decorative Greens and Florists' Requisites.

BOXES BOXES BOXES

LIGHT WOOD CUT FLOWER BOXES

Sizes in Stock

per 100

3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
6 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

Write for samples and prices in car load lots.

GETMORE BOX FACTORY, Incorporated,
BELLEVILLE, ALA.

PHILADELPHIA NOTES.

The Philadelphia Cut Flower Co. will move July 1st to 1517 Sansom street, directly opposite their present location.

The Leo Niessen Co. had the finishing touch put on their new establishment on the 12th inst. when the elevators started running for the upper floors.

Mr. J. Otto Thilow will address the Florist club, May 7. Subject: "The organization and equipment of a modern horticultural establishment."

INCORPORATED.

The Morgan Floral Co., of Henderson, Ky.; capital, \$3500; C. A. Morgan, E. A. Eckert, W. D. Lambert, incorporators.

Glyndon Gardens Nursery of Guthrie, Baltimore and Glyndon, Md.; capital, \$40,000; incorporators, T. F. Wilcox, J. J. Curley, H. W. Mason of Baltimore; G. V. Pattison and H. W. Pentecost of Guthrie.

A new store at Oakland, Cal., is under the management of Clarke Bros., of Portland, Ore.

Best Flowers

in the Boston Market

N. F. McCARTHY & CO.

84 HAWLEY STREET

BOSTON, MASS.

SEND FOR PRICES

Headquarters in Western New York

FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.

BUFFALO, N. Y.

Give us a trial. We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000.

Case of 10,000, \$7.50.

Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

\$2.00 per 1000.



Best Southern Smilax, \$3.50 and \$7 per case.
Headquarters for all FLORISTS' SUPPLIES. Wire Designs,
Cut Wire, Letters, Immortelles, Cycas Leaves, Wheat
Sheaves, Ribbons, Corrugated Boxes, etc.
LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 15 Province St.,
9 Chapman Pl., Boston, Mass. L. D. Telephone, Main, 2617-2618.



WHOLESALE FLOWER MARKETS. — TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	April 15		April 16		April 15		April 17	
ROSES								
Am. Beauty, Fan, and Sp.....	25.00	to 35.00	25.00	to 30.00	25.00	to 30.00	20.00	to 25.00
" Extra	20.00	to 25.00	15.00	to 20.00	20.00	to 25.00	12.50	to 15.00
" No. 1.....	15.00	to 20.00	10.00	to 15.00	15.00	to 20.00	6.00	to 8.00
" Lower grades.....	6.00	to 10.00	3.00	to 8.00	3.00	to 15.00	.....	to 4.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	6.00	to 8.00	8.00	to 10.00	8.00	to 10.00
" " " Extra....	5.00	to 6.00	5.00	to 6.00	6.00	to 8.00	5.00	to 6.00
" " " No. 1 & lw. gr.	3.00	to 4.00	3.00	to 5.00	3.00	to 6.00	3.00	to 4.00
Liberty, Richmond, Fan, & Sp....	6.00	to 8.00	4.00	to 6.00	8.00	to 10.00	10.00	to 12.00
" " " Lower grades.	4.00	to 5.00	3.00	to 4.00	3.00	to 8.00	4.00	to 6.00
Chatenay, Morgan, Fan, & Sp....	6.00	to 8.00	4.00	to 6.00	8.00	to 10.00	10.00	to 12.00
" " " Lower grades.	4.00	to 5.00	3.00	to 4.00	4.00	to 8.00	4.00	to 6.00
Killarney, Wellesley, Fan, & Sp..	6.00	to 8.00	4.00	to 6.00	8.00	to 10.00	10.00	to 12.00
" " " Lower grades	4.00	to 5.00	3.00	to 5.00	5.00	to 8.00	4.00	to 6.00
CARNATIONS								
Fancy and Novelties.....	2.00	to 3.00	2.00	to 3.00	2.50	to 3.00	3.00	to 4.00
Ordinary.....	1.00	to 2.00	1.00	to 2.00	1.50	to 2.00	1.00	to 2.00
MISCELLANEOUS								
Violets, Double.....	.35	to .50	.75	to .....	.50	to .75	.....	to
" Single.....	.35	to .50	.75	to .....	.....	to .....	.....	to
Cattleyas.....	.....	to	50.00	to .....	.....	to .....	.....	to
Sweet Peas.....	.75	to 1.00	.75	to 1.00	.75	to 1.00	.75	to 1.00
Tulips, Daffodils .....	.....	to 3.00	3.00	to 4.00	2.00	to 3.00	2.00	to 4.00
Lilies.....	8.00	to 10.00	15.00	to 20.00	8.00	to 12.00	8.00	to 12.50
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Gardenias.....	6.00	to 15.00	.....	to .....	.....	to .....	.....	to
Mignonette.....	1.00	to 3.00	6.00	to 10.00	2.00	to 3.00	2.00	to 4.00
Lilacs (100 bunches).....	.....	to .....	.....	to .....	.....	to .....	.....	to
Adiantum.....	.....	to 1.00	1.00	to 2.00	.50	to 1.00	1.00	to 1.25
Smilax.....	.....	to 12.50	15.00	to 20.00	.....	to 20.00	20.00	to 25.00
Asparagus Plumosus, strings.....	40.00	to 50.00	20.00	to 30.00	40.00	to 50.00	25.00	to 50.00
" " " & Spreng. (100 bchs.)	to 25.00	20.00	to 30.00	25.00	to 50.00	20.00	to 25.00

WINSOR CARNATION BLOOMS

Grown by the F. R. Pierson Company

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545 Liberty St., PITTSBURG, PA.

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Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreens

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 28 State St., Boston.
For page see List of Advertisers.

ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

AGERATUMS

R. L. Gonsalvos, Waltham, Mass.
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AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

ALTERNANTHERAS

Alternantheras, red and yellow, \$2 per 100. Jos. H. Cunningham, Delaware, Ohio.

AMPELOPSIS.

A. T. Boddington, 342 W. 14th St., New York.
For page see List of Advertisers.

5,000 Ampelopsis Veitchii, pot grown. Dormant, long tops, \$4.00 per 100. English Ivy, 3 1-2 in., 3 to 5 ft., \$3.00 per 100. Cash. Benj. Connell, West Grove, Pa.

ARAUCARIAS

Peter Henderson & Co.
35-37 Cortlandt St., New York.
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A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

ASPARAGUS

Albert M. Herr, Lancaster, Pa.
Asparagus Robustus.
For page see List of Advertisers.
Plumosus, 3-in., \$5.00 100; \$40.00 1000. Christ. Winterlich, Cyclamen Specialist, Defiance, Ohio.

Asparagus plumosus nanus and Sprengerii, 2 1-2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asp. Plumosus and Sprengerii, 2 inch pots, \$2 per 100. Jos. H. Cunningham, Delaware, O.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

Asparagus Crawshawii, a new, beautiful asparagus. Seedlings, \$3.00 per 100; \$25.00 1000; transplanted seedlings, \$5.00 100; \$40.00 1000. Jas. Crawshaw, 403 Plainfield St., Providence, R. I.

ASPARAGUS SEED

S. S. Pennock-Meehan Co., Philadelphia.
For page see List of Advertisers.

C. Eisele,
11th and Roy Sts., Philadelphia, Pa.
For page see List of Advertisers.

L. Van Steenkiste,
1 Dey St., Jersey City, N. J.

ASTERS.

Novae-Angliae Asters, strong, \$3.00 per 100; \$25.00 per 1000. Ellsworth Brown & Co., Seabrook, N. H.

Aster Miss Kate Lock, \$1.00 tr. pkt. It's the best aster grown. J. H. Lock, 41 Manchester Ave., Toronto, Ont.

AZALEAS

John Scheepers & Co., 2-6 Old Slip, N. Y.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Azalea Amoena in large quantity, 25c., 50c., and \$1.00. Ask for trade list of choice hardy ornamental stock. Samuel C. Moon, Morrisville, Pa.

BAY TREES.

John Scheepers & Co.
4 and 6 Old Slip, New York.
For page see List of Advertisers.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

J. E. Felthousen, Schenectady, N. Y.
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C. Eisele, 11th and Roy Sts., Phila.
Spring Bedding Plants.
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R. Vincent, Jr., & Son, White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Baur Floral Co., Erie, Pa.
Begonia Thurstonii.

For page see List of Advertisers.

Begonia Gloire de Lorraine. Extra fine. 2 1-4 inch pot. Leaf cutting \$12 per 100; \$100 per 1000. Delivery May 1st. Julius Roehrs Co., Rutherford, N. J.
Jos. H. Cunningham, Delaware, O.

BELGIAN PLANTS

L. Van Steenkiste, 1 Dey St., Jersey City, N. J.

BOILERS

BOILERS. "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

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A. T. Boddington, 342 W. 14th St., N. Y.
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Rickards Bros., 37 East 19th St., New York.
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H. F. Michell Co., Philadelphia.
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Johnson Seed Co., 217 Market St., Phila.
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John Scheepers & Co., 4-6 Old Slip, N. Y.
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BULBS AND TUBERS—Continued.

Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

Amaryllis formosissima, 11-13 cm., \$2.00 per 100; \$13.00 per 1000. Bessera elegans, 7-9 cm., \$1.00 per 100; \$9.00 per 1000. Pancratium, spider lily, 12-15 cm., \$3.00 per 100; \$20.00 per 1000. Tigridias, mixed, 7-9 cm., \$2.00 per 100 \$12.00 per 1000. Zephyranthes, white, 7-9 cm., \$1.00 per 100; \$9.00 per 1000. Price includes carriage paid. J. A. McDowell, Ap. 167, City of Mexico.

CACTI

Old Man cactus, 4 to 5 inches high, \$3.00 per doz.; \$22.00 per 100. Carriage paid. J. A. McDowell, Ap. 167, City of Mexico.

CANNAS

The Conard & Jones Co., West Grove, Pa.
For page see List of Advertisers.

Cannas, 1000 each, Allemania, Austria, Burbank, \$1.00 per 100. O. B. Stevens, Shenandoah, Iowa.

10,000 potted cannas, 20 best sorts, 4 to 6c.; Dormant, \$1.50 per 100. Benj. Connell, West Grove, Pa.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.
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S. S. Skidelsky, 824 N. 24th St., Phila.
Rose Pink Enchantress.
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Chicago Carnation Co., Joliet, Ill.
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The F. R. Plerson Co., Tarrytown-on-Hudson, N. Y.
Carnations, Winsor, White Enchantress, Helen M. Gould.
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A. J. Guttman, 43 W. 28th St., New York.
John E. Haines, Bethlehem, Pa.
Carnation Imperial and Pink Imperial.
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F. Dörner & Sons Co., Lafayette, Ind.
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Guttman & Weber, 43 W. 28th St., N. Y.
Carnation Victory.
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N. Y. Cut Flower Co., 55-57 W. 26th St., New York. J. A. Millang, Mgr.
Carnation Winsor Blooms.
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Harlowarden Greenhouses, Greenport, N. Y.
For page see List of Advertisers.

Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kauback & Son, Malden, Mass. 35,000 square feet covered by Glass.

CEDAR BEAN POLES

1 1-2 inch butt, 5 ft. to 7 ft. long, \$10.00 per 1000; 2 inch butt, 8 ft. long, \$15.00 per 1000; 2 1-2 inch butt, 10 to 12 ft. long, \$22.50 per 1000. H. R. Akers, Chatsworth, N. J.

CHRYSANTHEMUMS

Eggeling Floral Co., 1653 S Grand Ave., St. Louis, Mo.
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CHRYSANTHEMUMS—Continued.

Charles H. Totty, Madison, N. J.
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A. N. Pierson, Cromwell, Conn.
For page see List of Advertisers.

Harlowarden Greenhouses, Greenport,
New York.
For page see List of Advertisers.

Chrysanthemum stock plants. About 1,000
Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100.
W. F. Kasting, 383 Ellicott St., Buffalo,
N. Y.

Chrysanthemums. White—Timothy Eaton,
Estelle, White and Yellow Bonaffon,
Alice Byron, Ivory. Pink—Glory of Pa-
cific, Dr. Enguehard, Maud Dean, Yel-
low—Col. Appleton, Mrs. Whildin, Crema,
Robt. Halliday, Roi d' Italie. Rooted cut-
tings, \$2.00 per 100; \$15.00 per 1000. Cash
with order. Wm. Swayne, Box 226, Ken-
nett Square, Pa.

COLEUS

Coleus, \$2 per 100. Jos. H. Cunningham,
Delaware, O.

CONIFERS

John Waterer & Sons, Ltd., American
Nursery, Bagshot, Eng.
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Evergreens and Conifers. Ask for cata-
logue. Bobbink & Atkins, Rutherford, N. J.

Evergreens of large size from 6 to 16
feet in variety frequently transplanted.
Ask for list. Samuel C. Moon, Morrisville,
Pa.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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Folding cut flower boxes, the best made.
Write for list. Holton & Hunkel Co., Mil-
waukee, Wis.

CYCLAMEN.

Giant Hybrids transpl., ready for 2-in. and
3-in., \$3.50 100; \$30.00 1000. Plants grown
of seed taken from the cream of my well
known strain. Christ. Winterich, Cyclam-
en Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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J. K. Alexander, E. Bridgewater, Mass.
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Harlowarden Greenhouses, Greenport,
New York.
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H. E. Fiske Seed Co.,
Faneuil Hall Sq., Boston.
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Dahlias, choice, 25 \$1; five pkts. vegeta-
ble or 16 flower seeds, 10 cents. Hyponoco,
Westport, N. H.

Dahlias, fine, strong bulbs. Also cannas.
Write for price list. O. B. Stevens, Shen-
andoah, Iowa.

THE DAHLIA MANUAL.

An up-to-date work on dahlias and dahlia
culture, covering the whole field. Illus-
trated. Price, 35c. W. W. WILMORE,
Box 382, Denver, Colo

We make them pay. So can you; the
best for summer cutting—Kriemhilde, Cath-
erine Duer, \$1.50 per doz., or \$10.00 per
100; Storm King, \$1.00 per doz.; \$8.00 per
100. Whole roots, field grown. W. C.
Ward, Adams Street, Quincy, Mass.

DAHLIAS—Continued.

I am again ready to handle your busi-
ness. Only the cream of varieties handled.
Standards and novelties, including Mrs.
Winters, Mme. Dael, Navajo, Lonsdale,
Dainty, Kriemhilde, etc. Catalogue of
dahlias, hollyhocks, peonies and hardy
plants now ready. W. W. WILMORE,
Box 382, Denver Colo.

DAISIES

Shasta Daisies. Burbank's named varie-
ties, \$2.50 per 100, express prepaid. Leed-
ham Bulb Co., Santa Cruz, Cal.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Peter Henderson & Co.
35-37 Courtlandt St., New York.
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Dracaena indivisa, 5 in., \$2.00 per doz.
S. C. Rockwell, Bradford, Pa.

Dracaena terminalis from bench, fine.
\$25.00 100. Carl Hagenburger, West Men-
tor, Ohio.

ECHEVERIAS

Echeverias, 15 to 20 cm. in cir., \$3.00 per
100; \$22.00 per 1000. Carriage paid. J. A.
McDowell, Ap. 167, City of Mexico.

FERNS

Baur Floral Co., Erie, Pa.
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A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitman.
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Siebrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.
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Boston ferns, pot grown, strong plants,
5 in., 25c.; 6 in., 35c.; Scottil, 5 in., 25c.;
6 in., 35c.; 7 in., 45c.; Elegantissima, 5 in.,
35c.; 6 in., 50c. S. J. Reuter, Westerly,
R. I.

FICUS

Baur Floral Co., Erie, Pa.
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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2
Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St.,
Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St.,
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9 Chapman Pl., Boston, Mass.
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Decorative Evergreens.
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J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.
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J. Breitmeyer's Sons, Miami & Gratiot
Aves., Detroit, Mich
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Thos. Young, Jr., 41 W. 28th St., N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St.,
Washington, D. C.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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Young & Nugent, 42 W. 28th St., N. Y.
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W. H. Donohoe, 2 W. 29th St., New York.
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Theodore Miller, 4832 Delmar Rd.,
St. Louis, Mo.
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P. J. Hauswirth (Temporary address) 13
Congress St., Chicago.
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William J. Smyth, Michigan Ave and 31st
St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Theodore Miller, 4832 Delmar Bvd.,
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Thos. F. Galvin, 124 Tremont St., Boston.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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FLOWER POTS

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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Say! Send to Feustel, for prices on Red
flower pots. Geo. E. Feustel, Fairport, Ia.

FUCHSIAS

Baur Floral Co., Erie, Pa.
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GALAX

H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broad-
way, Detroit, Mich.
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Caldwell the Woodsman Decorating Co.,
Evergreen, Ala.

Galax. Ask for price on case lots. Scan-
ton Florists' Supply Co., Scranton, Pa.

GERANIUMS

R. L. Gainsalvos, Waltham, Mass.
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R. Vincent, Jr., & Son, White Marsh, Md.
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J. E. Felthousen, Schenectady, N. Y.
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Wm. S. Herzog,
Morris Plains, N. J.
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C. Elsele,
11th and Roy Sts., Philadelphia, Pa.
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In writing to Advertisers kindly mention Horticulture

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.
Gladiolus Augusta, 1st size, \$12.00; 2nd size, \$8.00 1000. Cash. Rowehl & Grana, Hicksville, N. Y.

GLADIOLI. Groff's Hybrids, Gold Medal and Silver Trophy Strain, Crawford Strain, Farquhar Hybrid seedlings. JOHN H. UMPLEBY, Lake View, N. Y.

	Per 100	Per 1000
5,000 Gladioli Florist Mix.....	.75	\$6.00
7,000 Montbretia Crocos, sin. fl'r. .	.60	5.00
4,000 Oxalis Shamrock.....	.40	3.00
3,500 Oxalis Purpurea.....	.40	3.00

Cash with order. Elmer Shute, R. F. D. 41, West Newbury, Mass.

GLASS

Boston Plate & Window Glass Co., Boston.
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GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.

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GLAZING POINTS, Lord & Burnham Special Glaze Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GRAPE VINES

Bobbink & Atkins, Rutherford, N. J.
English Pot-Grown Grape Vines: Trained Fruit Trees.

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.

Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.
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Weathered Co., Box 789, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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GREENHOUSE CONSTRUCTION
GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GREENHOUSE BRACKETS

Buxton & Allard, Nashua, N. H.
Economy Greenhouse Bracket.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HAMMOND'S COPPER SOLUTION

Benj. Hammond, Fishkill-on-Hudson, N. Y.

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.
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The Kervan Co.,
20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
Fancy Ferns.

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E. A. Beaven, Evergreen, Ala.

Fadeless Sheet Moss.
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HARDY ORCHIDS

H. P. Kelsey, Salem, Mass.
Cypripedium Reginae.

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HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Funkia variegata clumps, \$6.00 per 100.
H. Pladeck, Elmhurst, N. Y.

Yucca Filamentosa, No. 1, 4c.; Iris Sibirica, 3c. Ellsworth Brown & Co., Seabrook, N. H.

Hemerocallis Thunbergii, 12 inch clumps, \$20 per 100.

Yucca filamentosa, strong plants with 50 leaves, \$20 per 100.

Hibiscus moscheutos, 3 yrs., \$4 per 100.
Yucca gloriosa, \$10 per 100. Ask for trade list of hardy nursery stock. Samuel C. Moon, Morrisville, Pa.

HARDY PLANTS

Vick & Hill Co., Rochester, N. Y.
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HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Kroeschell Bros., 35 Erie St., Chicago.
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Johnston Heating Co., 1133 Broadway, N. Y.
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HOLLYHOCKS

Hollyhocks. Large field-grown plants, \$3.00 per 100. Double in separate colors of red, white, pink, yellow and maroon; also the Allegheny strain. Send for catalogue of hollyhocks, dahlias and hardy plants. W. W. WILMORE, Box 382, Denver, Colo.

HONEYSUCKLES.

Golden Honeysuckles, 7c. Ellsworth Brown & Co., Seabrook, N. H.

HORSES

Useful work-horses for florists' spring work; also florists' delivery wagons, good as new. Edward Higgins, 1 West 28th St., New York.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.

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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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HOT WATER CIRCULATOR

W. W. Castle, 170 Summer St., Boston.
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HYDRANGEAS.

Hydrangea paniculata grandiflora, 3 ft., 3c. Ellsworth Brown & Co., Seabrook, N. H.

INSECTICIDES.

Nicotinide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Louisville, Ky.

IRISES

Yokohama Nursery Co., 31 Barclay St., New York.
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JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.
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KENTIAS

A. Leuthy & Co., Roslindale, Mass.
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LAWN AND CEMETERY VASES

Kramer Bros. Foundry Co., Dayton, Ohio.
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LAWN MOWER

Clipper Lawn Mower Co., Dixon, Ill.
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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.

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J. Breitmeyer's Sons, Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.

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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Ave. and 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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W. H. Donohoe, 2 W. 29th St., New York.
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Atlanta Floral Co., Atlanta, Ga.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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LILY OF THE VALLEY

Wm. Elliott & Sons, 201 Fulton St., N. Y.
Lily of the Valley Clumps.

John Scheepers & Co., 4 and 6 Old Slip, New York.

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LIVISTONIAS

Livistonia Rotundifolia. Well leaved and clean, \$6, \$9, \$12 per doz. J. Roehrs Co., Rutherford, N. J.

LOBELIAS**NEW—NEW—NEW**

LOBELIA KATHLEEN MALLARD
Fine double flower; fine, strong 2 1/2-inch pot; \$5.00 per doz.
Quantity limited. Order at once.
J. Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MOON VINES

Godfrey Aschmann, 1012 Ontario St., Phila.
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NIKOTEEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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John Scheepers & Co.
4 and 6 Old Slip, New York.
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Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.
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The Conard & Jones Co., West Grove, Pa.
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The F. E. Conline Nursery Co., Stratford, Conn.
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The Wm. H. Moon Co., Morrisville, Pa.
American Arborvitae.
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Oak Hill Nurseries, 114 Poplar St.,
Rosindale, Mass.
Berberis Thunbergii.
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Henry A. Dreer, Philadelphia.
Rhododendrons, Boxwood Edging, Hardy
Shrubs and Border Perennials.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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Continental Nurseries, Franklin, Mass.
Hardy Shrubs.
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Cut leaf Staghorn sumach, large stock.
6c. to 15c.; Kudzu Vines, 15c. Edw. Teas,
Joplin, Mo.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Carrillo & Baldwin, Secaucus, N. J.
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A. Held, 11-19 William St., New York.
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Selbrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.

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Jos. A. Manda, 191 Valley Road, W.
Orange, N. J.

Orchids, Orchid Baskets, Peat.
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Laelia anceps, \$4.00 per doz.; \$25.00 per
100. Carriage paid. J. A. McDowell, Ap.
167, City of Mexico.

PALMS

A. Leuthy & Co., Rosindale, Mass.
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Siebrecht & Son, Rose Hill Nurseries,
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Peter Henderson & Co.
35-37 Cortlandt St., New York.
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John Scheepers & Co.
4 and 6 Old Slip, New York.
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PAINT AND PUTTY.

PAINT AND PUTTY: Ideal Greenhouse
Lead; Special Greenhouse Putty. Lord &
Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Wm. Dobbartin, 595 Joseph Ave., Roches-
ter, N. Y.

Giant Pansy Plants.
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Pansy plants; strong transplanted, \$10.00
per 1000. F. A. Baller, Bloomington, Ill.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Yokohama Nursery Co., 31 Barclay St.,
New York.

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Peonies, fine assortment, \$10.00 per 100.
F. A. Baller, Bloomington, Ill.

Peonies. 1200 sorts. Greatest list any-
where. C. Betscher, Canal Dover, Ohio.

Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfield, West Point,
Neb.

Peonies. 200 strong undivided five year
old clumps; pink sorts only, \$25 per 100.
Ask for trade list of ornamental nursery
stock. Samuel C. Moon, Morrisville, Pa.

PETUNIAS

The Yates Floral Co., Canajoharie, N. Y.
Double Petunia the Queen.

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C. Elsele.
11th and Roy Sts., Philadelphia, Pa.
Howard's Star and Rosy Morn.
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Wm. S. Herzog.
Morris Plains, N. J.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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PRUNING SHEARS

Rhodes Mfg. Co., Grand Rapids, Mich.

RAFFIA

Raffia, prime long fiber sound and
strong, 10c. the pound, \$3.00 the hundred
pounds; cash with order please. A. Kolker
& Sons, New York. P. O. Box 759.

RHODODENDRONS

John Waterer & Sons, Ltd., American
Nursery, Bagshot, Eng.
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ROSES

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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Paul Niehoff, Leighton, Pa.
Rose Aurora.
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The Conard & Jones Co., West Grove, Pa.
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Bay State Nurseries, No. Abington, Mass.
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A. N. Pierson, Cromwell, Conn.
Grafted Roses, Own-Root Beauties.
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Montrose Greenhouses, Montrose, Mass.
Grafted Bride and Bridesmaid Roses.
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ROSES—Continued.

R. T. McGorum, Natick, Mass.
Grafted Brides and 'Majds.

A. T. Boddington, 342 W. 14th St.,
New York.

Climbing Roses.

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Low-budded roses, No. 1, \$95.00; No.
1 1-2, \$65.00 1000. H. T. Jones, Elizabeth,
N. J.

American Beauties, 2 1-2 in., \$8.00 per
100; \$75.00 per 1000. Chas. H. Totty, Madl-
son, N. J.

Own root roses, 2 years. C. Ramblers.
\$7.00; Dorothy Perkins, P. W. and Y. Ram-
blers, \$5.00; H. P. roses and Baby Ram-
blers, \$8.00 per 100. Gilbert Costich, Roch-
ester, N. Y.

Baby Rambler roses, fine dormant stock,
one year, \$12 per 100, 2 1/4-in. pot plants,
extra well rooted, \$4 per 100, \$30 per M.
Orders booked for delivery now or any
time up to late spring. Samples free.
Brown Brothers Company, Rochester, N. Y.

SALVIAS

Perennial Gardens Co., Toledo, O.
Salvia Zurich.

R. L. Goinsalvos, Waltham, Mass.
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C. Elsele.
11th and Roy Sts., Philadelphia, Pa.
Salvia Bonfire.

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Salvia splendens, 2 1-2-in., red achyran-
thes, 2 1-2-in., \$2.00 per 100, \$18.00 per
1000. S. W. Carey, Florist, Urbana, Ohio.

SEEDS

H. E. Fiske Seed Co.

Faneuil Hall Sq., Boston.

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51 and 52 N. Market St., Boston, Mass.

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W. Atlee Burpee & Co., Philadelphia.

"New Creations" in Bush Limas.

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Henry A. Dreer, Philadelphia.

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A. T. Boddington, 342 W. 14th St., N. Y.
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H. F. Michell Co., 1017 Market St., Phila.
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James Vick's Sons, Rochester, N. Y.

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H. E. George, 929 Morton Ave., Pasadena,
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Delphinium Cardinale Seed.

Plumose seed, \$2.50 per 100. Jos. H.
Cunningham, Delaware, O.

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bury, Md.

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Pulverized Sheep Manure.
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SHEET MOSS

E. A. Beaven, Evergreen, Ala.
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Japanese Wistarias, 8c.; Berberis Thunbergii, 12 to 18 in., 3 1-2c.; Hibiscus, C. Eye and Pink, 3c.; Norway Spruce, 1 1-2 to 2 1-2 ft., 8c. Ellsworth Brown & Co., Seabrook, N. H.

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Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

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Comet Tomato.

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50,000 small horseradish sets, 25c. per 100; \$2.50 per 1000. S. J. McMichael, 142 Larkin St., Findlay, O.

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The Chicago Lifter.

VENTILATING MACHINERY, New Model encased, self-oiling gear; Standard Model Open Gear Pipe and Fittings, Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway N. Y.

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Violet, Gov. Herrick.
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E. A. Beaven, Evergreen, Ala.
Southern Smilax.

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Reed & Keller, 122 W. 25th St., N. Y.
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The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

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Woburn, Mass.—Dobbins & Shannon, one house.

Marquette, Mich.—E. R. Tauch, one house, 27x200.

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Arcola, Ill.—T. J. Denny, one house.

Plymouth, Mass.—C. E. Stevens, one house.

Greens Farms, Ct.—E. J. Taylor, one house.

St. Louis, Mo.—Adolph Brix, two houses.

Kirkwood, Mo.—Hugo Gross, six houses.

W. Seneca, N. Y.—R. C. Avery, one house, 20x150.

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Lexington, Ky.—Elmendorf Farm, range of houses.

Sterling, Ill.—Sterling Floral Co., palm house 26x40.

Lebanon, Tenn.—Lebanon Floral Co., range of houses.

Portsmouth, R. I.—Alfred Vanderbilt, range of houses.

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Issue March 26.

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- 848,135. Seed Planter. Simon R. Sikes and Thomas E. Sikes, Ocilla, Ga.
- 848,306. Farm Implement. Lycurgus E. Hull, Great Falls, Mont.
- 848,348. Potato Digger. Edwin B. Church, Sattley, Cal.
- 848,464. Vine and Weed Cutter. Chas. F. Hippard, Minonk, Ill.
- 848,525. Harrow. Hale V. Abbott and Nathan W. Abbott, Lawton, Mich.
- 848,540. Fertilizer and Lime Distributer. James M. Early, Indiana, Pa.
- 848,591. Hand Cultivator. Elias Haiman and George N. Murray, Cleveland, Ohio, assignors to The Empire Plow Co., Cleveland, Ohio.



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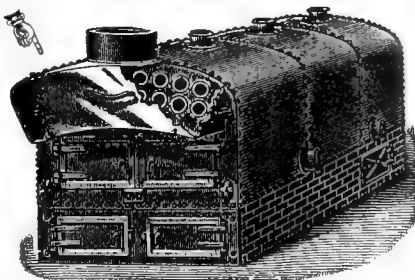
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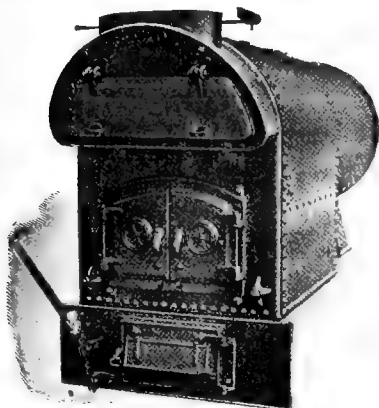
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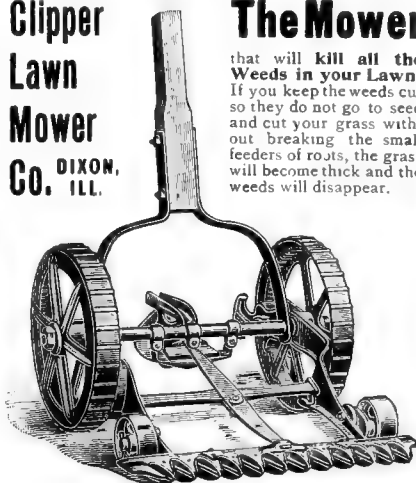
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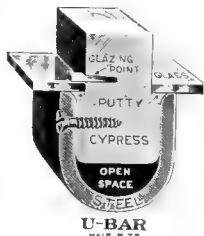
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HORTICULTURE

Vol. V.

APRIL 27, 1907

No. 17



GLOXINIAS

Photo by B. J. Brown

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The above grafted from 2 1-4 inch pots \$15.00 per 100; \$120.00 per 1,000 for A No. 1 stock; nothing else will be sent out. On their own roots, from 2 1-2 inch pots, re-potted from 2 inch, \$6.00 per 100; \$50.00 per 1,000.

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Shrubbery IN VARIETY

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All are 2 yr. old transplants, fine bushy stock.

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8,000 choice Dahlia Roots for sale cheap.

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Abies Balsamea, 3-4 ft.; 4-5 ft.
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" Douglassi, 3-4 ft.; 4-5 ft.
Buxus sempervirens natural, 1 1/2-2 ft.; 2-3 ft.
" pyramidalis, 4-5 ft.
" Standards, 18 in. heads.
Juniperus virginica, 2-3 ft.; 3-4 ft.; 4-5 ft.
Picea alba, 2-3 ft.; 3-4 ft.
" excelsa, 2-3 ft.; 3-4 ft.; 4-5 ft.
" " inverta, 3-4 ft.; 4-5 ft.; 5-6 ft.
" pungens green, 3-4 ft.; 4-5 ft.
" blue, 3-4 ft.; 4-5 ft.

Pinus mugho, 12-18 in.; 18-24 in.; 2-2 1/2 ft.
" strobus, (White Pine) 3-4 ft.; 4-5 ft.; 5-6 ft.; 6-7 ft.
" sylvestris, 2-3 ft.; 3-4 ft.; 4-5 ft.
Retinospora plumosa, 2-3 ft.
" filifera, 3-4 ft.
Thuya Hoveyii, 2 ft.; 3 ft.
" lutea, 3-4 ft.; 4-5 ft.
" occidentalis, 3-4 ft.; 4-5 ft.; 5-6 ft.
" pyramidalis, 3-4 ft.; 4-5 ft.
" Reversii, 4-5 ft.
" Siberica, (sheared) 18 in.; 2 ft.; 2 1/2 ft.; 3 ft.
" Warreana, 4-5 ft.

TREES, SHRUBS and ROSES in great variety

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	per 10	per 100
3-4 ft. size.....	\$6.00	\$50.00
4-5 ft. size.....	7.50	60.00

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ROSES

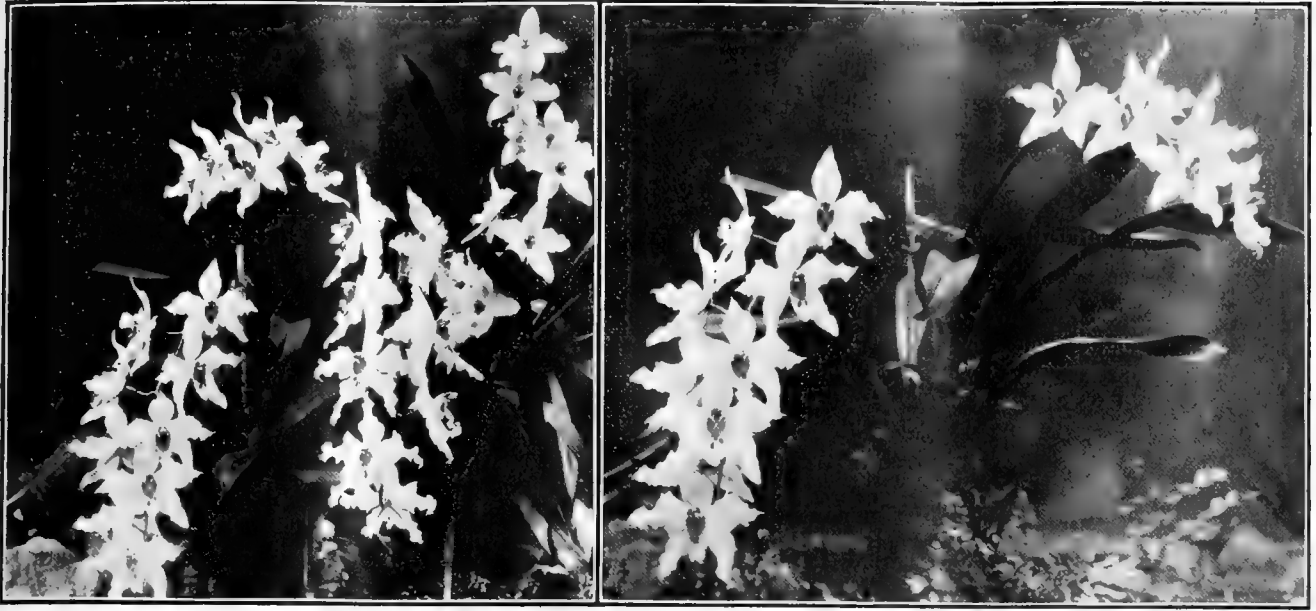
STRONG DORMANT PLANTS

American Beauty, Clothilde Soupert, Gloire de Dijon, Kaiserin Augusta Victoria, La France, Mad. Caroline Testout, Frau Karl Druschki, Crimson Rambler, Baby Rambler, Dorothy Perkins, etc., etc., SUITABLE FOR FORCING.

Immediate Delivery. Prices Right. General Catalog and Price Lists ready.

BAY STATE NURSERIES, North Abington, Mass.

Columbian Odontoglossums



The winter of 1906-'07 has been very unfavorable to the culture of odontoglossums, and it is to be feared that should the coming summer prove a hot one the plants will not have such an easy time as they have had in the past few years. In Pittsburg we have had more than our share of dull, dark and foggy days. The healthy bronze color is conspicuously absent, the leaves being quite green. The percentage of flowers, however, has been good, many plants flowering for the first time, some of them being plants of the real Pachó type which are part of an importation received in 1901. In the collection are some plants imported in 1895, twelve years ago. This knocks the theory that it is impossible to keep a collection without decrease for any number of years. Dr. Shafer keeps an accurate record of every plant which enters the collection and it is interesting to note that there have been scarcely any deaths amongst the odontoglossums although many of the plants were in bad shape on arrival.

The plants are wintered in a span-roofed house running north and south where they get all the light possible. In summer from March till September they have the advantage of a house especially constructed for cool orchids and to which their healthy condition is in a

great measure due. This house which is a lean-to built against the eastern wall of the cypripedium house, is shaded on the south by the projecting front and dome of the centre house. Owing to the peculiar construction of the range which is built on a side hill the floor level of the cool house is 9 feet below the level of the other compartments. In summer the house gets only the morning sun, being, during the hottest time of the day, quite in the shade of the other houses. Bamboo shading is used to protect the plants from direct sunlight, but these are only needed in the early part of the day. The fact that the range is built on a side hill is a distinct advantage in ventilating, as the lowest ventilators are considerably above the ground level in front. The collection, which numbers 175 plants, includes the following species and varieties: *Odontoglossum crispum*, various types, *Andersonianum*, *Pescatorei*, *luteo-purpureum*, *Hallii*, *triumphans*, *Ruckerianum*, *Edwardii*, *gloriosum*, *mirandum*, *Lindleyanum*, *Coradinei*, *spectrum* and *Hunnewellianum*.

James Hutchinson

Commercial Chrysanthemum Culture in France

II.

Our respective ladies have decided to go into Paris and view the chrysanthemum show, there to meet M. Nonin and myself later on. The weather which had certainly been the worst I ever knew in France in the month of November was now a trifle promising and after putting the ladies into the electric tram Nonin and I proceed in the direction of Vanves. Fortunately mine host has had some suspicion of the weather and ere long his man driving a covered van picks us up not many minutes too soon.

Wind and rain begin. The roads are soon flooded and the squalls are most violent. After a drive of some little distance the weather abates, but alas only for a short time, and we find ourselves ringing at the gate of M. Gaston Clement's nursery. This gentleman is a well-known "nummer" and has occupied prominent official

positions on the Paris Chrysanthemum Committee. As a market grower he has had considerable experience having been engaged in the work for about fifteen years. He is a grower for the very early and late seasons—not the midseason.

Altogether Clement's collection comprises about 400 varieties although like others engaged in the trade he has always a considerable number of novelties on trial to replace old varieties when improved ones can be found. His chief customers are the Paris and provincial florists and his culture is mainly plants in pots bearing three to five blooms each. These are cut with stems 3 ft. long, all finely developed, big show blooms that bring from 3 francs to 12 francs for a dozen blooms.

We start with the packing shed. Here are numerous tubs containing the flowers ready for packing. Several

women and boys are at work and we notice the blooms are wrapped in thin paper and packed in deep wicker baskets upright. The nursery itself is not of any great extent as it is only about four acres. The glass accommodation absorbs a good portion of the area. There are about a dozen low pitched, rough-made houses and several others larger in which we see some really first-class blooms.

In one large house constructed in the way previously described there is an immense collection of Julian Hillpert plants, 6 feet high in 10 inch or 11 inch pots with noble looking buds all swelling and showing color freely. These are for late season purposes. A sport from this variety called Soliel de Novembre is also in fine form.

Some of the smaller houses are visited in turn. They look like portable structures with loose lights on top. They are about 5 feet in height and are disastrous for the visitor's hat. Ventilation is secured by propping an inverted flower pot under each corner of the light and when shut down and the weather unpropitious straw mats are unrolled and cover up the lights. A few odds and ends arrest attention, the main early crop of bloom having already been cut and marketed. Gloire Poitevine is a fine crimson with gold reverse. Mme. Louis Dupuis is of medium size, a Jap, color creamy white. La Mauve is a very nice shaped flower—its color is indicated by its name. Edith de Clausonne is a very large Japanese, creamy white; and Robert Lefort, an incurved Jap., very large, color reddish crimson, reverse gold. Among the better known sorts there is a very large quantity of Mme. Paolo Radaelli, which appears to be a favorite everywhere in England and France.

We wander on toward the far end of the nursery and there find another very large roughly constructed glass shelter under which stands a most imposing sight, one of the most striking and effective we have ever seen. Here there are in close array 10,000 plants in large pots of that solid looking Jap., Duchesse d'Orleans. They all bear four or five blooms of full size and the effect is one to be remembered. This pure white noble Jap, with its deeply grooved florets has long been a popular variety with exhibitor and decorator alike.

Another interesting sight close at hand is a large batch of a deep rich yellow sport from the Duchesse, called Ami Nonin. These are grown and flowered in the same style. Mme. Rene Oberthur is another big fine white Jap. that is grown in quantity. Souvenir de Mme. Buron, and Lt. Col. Ducroiset are two good yellows that come early. Le Peyron is also a golden yellow of fine form. Immense quantities of these flowers are sold for All Saints Day and for the purpose of decorating the graves on All Souls Day, a custom religiously observed in France, but one scarcely known in England.

The weather fitful and uncertain has not made our progress an easy one. We are now off to Montrouge to see the nursery of M. Lemaire who is also a large cultivator of the "autumn queen." An immense down-pour signalizes our start and lasts for the remainder of the day. The darkness caused by the heavy rain clouds overhead practically spoils our afternoon's stay at Lemaire's and although under cover we wander about amid streams of water falling through the temporary roofs and up to our ankles in mud.

Lemaire does not cultivate for the late season. He begins cutting in September and finishes in November. His plants are all grown on the big bloom system and are for the florists in the Paris market. His chief collection comprises about 100 varieties of which he grows about 75,000 plants all in pots. He, too, has under trial

others of more recent introduction. We start our visit of inspection here by a tour round the packing shed. Several women and young people are getting a vanload ready for market. Big tubs are filled with immense blooms, all cut with long stems and foliage ready for packing. We note in the tubs many familiar sorts. M. Lemaire's flowers are very largely used for wedding parties, church decoration and the ornamentation of apartments, four hundred blooms of this type often being used at such festive gatherings. His chief aim is to get only large-flowering varieties and his collection is composed of such as will allow him to supply his customers with big blooms of every possible color at intervals of a fortnight during the season. Among them are Bandenier, a carmine reddish incurved, flowering in October. Princesse Alice de Monaco, a fine white Jap., end of September to middle of October. Volcan, an incurved, crimson red, reverse old gold, flowers in September and October. M. Antonin Marmontel, purple rose, Jap., October blooming variety. Calvat's Sun, golden yellow, a fine Japanese incurved, October. Mlle. Lucie Duveail, medium sized incurved, pure white, October flowering.

As in the other places the plants grown here are all placed in rows under their glass coverings and the pots partly sunk in the ground with spaces left at intervals for access. M. Lemaire's nursery is not more than about 2 1-2 to 3 acres in extent but the space is economized everywhere. After flowering, the old plants are cut down and the old stools are put out in the open for cuttings which are struck in April to May.

The day was now far spent and friend Nonin and I hurried off to the show to meet our womankind who under the cover of the greenhouses of the Cours la Reine had spent a far more comfortable afternoon in strolling round the exhibition which is always crowded with visitors at that time of day.

Charmian Rayne

British Horticulture

"NURSERYWOMEN"

Lately there has been a controversy in a London daily paper, as to the suitability of gardening work for women. Some of the writers have questioned whether women can successfully engage in the arduous work of tilling the soil. It is somewhat late in the day to raise difficulties of this kind, seeing that there are several notable instances of the fair sex carrying on profitable nursery and market growing businesses. Two sisters are carrying on a violet nursery in Sussex, whilst I am acquainted with several women who are doing a large business in supplying plants of their own raising. I have lately heard of the achievements of three sisters who have started a nursery near Southsea, on the Hampshire coast. The founder of the business commenced at the age of 19 with practically no capital, and she had to first clear a thistle covered, neglected piece of land. A commencement was made by growing vegetables for market, a glass-house for tomato culture being eventually added. The enterprise proved so prosperous that six large glass houses were required, and these are fully occupied all the year round. Tomatoes have been found the most profitable item, these being in constant demand at the shops in the neighborhood. Pupils are also being trained at the nursery, and in five years a very

substantial business has been built up by the enterprising and energetic trio.

CARNATION CULTURE

Mr. A. F. Dutton, who is a leading carnation specialist, lately afforded me some information as to his methods of culture for show purposes. "The proper time to get the color and size of the tree carnations at their best in England is undoubtedly by November and March," he states, "and the reason can very easily be traced in the condition of our climate at those months. In the summer the flower expands too quickly, to obtain its points perfectly, compared with the autumn and spring, when the growth is considerably slower. The chief points to watch are: firstly, the temperature. This should not vary between day and night more than ten degrees. For night temperature the house should be kept at 45 to 50 degrees. Next in importance to this is the watering. The plants should never be allowed to remain dry after they are established in their pots and have commenced flowering; a feed with some good artificial fertilizer fortnightly is very beneficial. Thirdly and lastly, of all essential points is the ventilating. Carnations, like human beings, to thrive, must have pure air and healthy surroundings, always giving ventilation when the temperature outside is above 35 degrees. This should be regulated by the outside elements. The blooms should always be cut early in the morning, and kept in water a few hours before travelling, using a good, sharp knife, which is most essential to keep the bloom well, and to be in perfection for the show." The many successes obtained by Mr. Dutton on the show tables are proofs that he has been working on the most satisfactory system.

DAFFODILS BY THE TON

The markets are now fully supplied with daffodils grown by the acre on the Scilly Isles, situated about 30 miles from the Cornish coast. Scilly's total area is 3,600 acres of which rather less than 2,000 are susceptible of profitable cultivation. At the present time every available yard adapted to narcissus culture is utilized. The output has steadily increased until at the present time hundreds of tons of cut bloom are dispatched to Britain. By the extensive use of glass the growers are able to cater for the early market, before the Lincolnshire bloom is ready. The flowers are picked whilst the tender bud is still protected by the green sheath and placed under glass, whence they are deposited in bowls and vases and allowed to develop. Lilies are treated in the same way. In recent years the prices have not been what the Scillonian farmer could desire, as the competition is now fiercer than formerly. The growers have tried to cultivate their lilies earlier, so as to have room for a later tomato crop under glass. The industry provides employment for a large army of men, women, and children, who assist in gathering, packing, and despatching the flowers to the various markets. The season lasts from the end of January to the middle of April. The flower growing industry has been a splendid thing for the residents in the islands. Many of the growers had found potato culture unprofitable, and the attention devoted to floriculture, in spite of the drop in prices, has secured an ample reward. The wholesale culture of bloom has enabled the poorest classes in this country to have their homes adorned by the golden harbingers of spring.

W. H. Adsett.

Gloxinias

(See Frontispiece)

Gloxinias are indispensable for greenhouse and conservatory summer decoration; they also furnish a source from which the gayest and choicest of cut flowers can be had. Though easily bruised by rough handling in the cut state or on the plants, and therefore not so well adapted for transportation purposes as might be wished, yet when the necessary care is exercised to ensure their safe arrival where they are to be used as cut flowers they are remarkably long-lasting in cool airy rooms minus excessive draughts.

Gloxinias can be had for decorative as well as for cut flower purposes for many months at a time provided the necessary amount of bulbs are at hand for starting successive batches. Old bulbs are better for the earlier flowering batches, the seedlings taking up the rear of the season, which will be well into autumn. Both seeds and first-flowering old plants should be started, the latter for early June flowering, early in February in a warm moist house of 65 to 70 degrees.

The seeds being small, and the nature of the plants being delicate and somewhat fragile at first, considerable care is necessary to attain reasonable success. Shallow boxes or pans are best to start the seeds in and this holds good for the starting of the old bulbs, too. Clean well decayed leafmould and sharp sand in nearly equal proportions, with powdered charcoal in addition, makes a good medium to sow the seeds on; the seeds should be only pressed in this composition with a smooth surfaced board, and moistened from below thereafter when necessary—that is, the seed pans, as the case may be, in preference should be dipped in a pail of water or any other convenient reception and gently immersed until the soil is moistened. A pane of glass over the seed receptacle is an aid to germination inasmuch as it keeps the seed bed uniformly moist by preventing rapid evaporation. As soon as the seedlings can be conveniently handled they should be pricked off into other pans in much the same compost, otherwise they will quickly vanish with the so-called damping off trouble. Several such transplantings are necessary ere they finally arrive at a sufficiently strong stage to be transferred to pots, or still better for greater results, transplanted in well-prepared cold frames, which, of course, have to be kept closed at first.

Gloxinias are very sensitive to bright sunshine and therefore must be protected with a shade of some kind; the moveable shade, if convenient, is as a matter of course to be preferred. As they arrive at the mature stage and before flowering with their full and normal vigor intact, stimulating waters will be reflected in ampler foliage and nobler flowers.

It is needless to say that as progress towards the maturer stages is made, whether it be seed or old bulbs, that the texture of the soil should be changed accordingly, from the finer compost to an open fibery generously rich one. While gloxinias delight in a genial moist atmosphere when making their growth especially, they do not take kindly to heavy shower baths overhead, and this should be avoided.

H. Furley

HORTICULTURE

VOL. V

APRIL 27, 1907

NO. 17

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 05

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;

six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass. under the Act of Congress of March 3, 1879.

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Quality
counts in bulb
forcing

A correspondent, replying to a recent editorial in this paper in which comment was made on the remissness of many growers in their methods of bulb forcing, makes the point that the flooding of the wholesale flower markets in early spring with out-door bulbous flowers from the South is so destructive of market values that bulb forcing under glass at that season presents no inducements for special cultural care. As it appears to us these conditions present the very best of reasons for effort to produce something so superior in finish to the ordinary outdoor material that it will hold its own in any discriminating market. We have in mind certain growers who have demonstrated this to their own and the buyers' satisfaction. In bulb forcing as in everything else the best goods will usually command a remunerative price.

"The most
unkindest cut"

Judging from reports received, the notion of dyeing live flowers has already extended far beyond the limits of the odious green carnation which has brought reproach upon so many florists, not only because it is a vulgar debasement of one of Nature's most charming products but also because it is a premeditated fraud. A correspondent of the Journal of Horticulture tells of the purchase at a high price of double daffodils of a blood-orange hue, in a florists' shop, under the name of "Enfield Trophy," which afterwards proved to be nothing but the ordinary daffodil dyed. A story is going the rounds of the papers that in Germany there has developed of late a great demand in certain circles for these denaturalized flowers. We trust the story is overdrawn, but when we learn that at a recent convention of "naturalists" at the Natural History Society rooms in Boston, demonstrations were given of the artificial coloring of flowers, and that "exquisite tints" were produced we are about ready to believe anything concerning the rest of the world.

Nature
and Art

The discussion at the last meeting of the Gardeners' and Florists' Club of Boston as to how far the "naturalistic" style of gardening may be carried in connection with buildings and the formal features of an orderly, neatly kept residence brought out some very pronounced views, diametrically opposite in character, in each case reflecting more truly, possibly, the present footing and environment of the speaker than what would be his sentiments could he be placed in an entirely independent position. From the gardener in charge of a private home estate what could one expect other than an advocacy of faultless lawns, symmetrical plants and scrupulous neatness in every detail? On the other hand the artist, as such, detests these conditions, finding inspiration only where Nature works unmolested and oftentimes greater beauty in the half-dead tree than in the perfect specimen as seen from the gardener's view point. We can hardly look for a modification of views at these two extremes but, all the same, there is a middle and better ground where the fitness of things is the dominant influence and where a proper balance between architectural primness and artistic abandon may be maintained without unreasonable strain. Nature, herself, is constantly working to clothe or remove from sight all rough and dilapidated objects and evidently has no love for ruins. On the other hand, the broad guage gardener will strive at all times for general effect and balance, making individual perfectness and symmetry a secondary consideration in the practice of his art.

Catalogue
Art

Many of the catalogues sent out by dealers in hardy ornamental stock this year are a credit to the nursery trade. Some of them are truly works of art and the seedsmen will have to bestir themselves if they are to hold their own in artistic catalogue making hereafter.

The Codling Moth

(CARPOCAPSA POMONELLA, LINN.)

As the blossoming time draws near the period for spraying to destroy the codling moth attracts attention. Gradually extending its operations over a larger and larger field more orchardmen will have to spray to protect their crops of apples and pears.

The larva or worm which cause the trouble is the young of a small grayish brown moth, having a wing expanse of three-fourths of an inch. The front wings are marked with irregular streaks, lines and dashes of gray. It is seldom seen but can be easily identified by the two large brown spots marked with gold at the end of each fore-wing.

The first brood of moths emerge about a week after the apples blossom and lay their eggs on the leaves. The pear is also attacked seriously and sometimes the prune, plum, peach and cherry.

The pearly white, ribbed eggs hatch in eleven days and the young caterpillar begins to feed on the leaves, then enters the fruit, about eighty per cent. passing in through the calyx end. When full grown (a process covering about three weeks), it is three-eighths of an inch long. Coming to the surface it crawls off to find some convenient place to pupate, making a silken cocoon for the purpose. Three weeks later the moths of the second generation appear and commence laying for another brood.

The second brood reaches the larval stage and then forms its cocoons, hibernating in these placed in cracks and holes of trees, or in storage quarters where fruit is kept.

Where the insect has not gained a foot-hold strenuous efforts should be made to keep it out. It spreads by the moths flying from tree to tree, a slow process, in storage boxes, and in the fruit. Fumigating the boxes and inspecting the fruit will aid in holding down the insect.

There are a number of methods which help in controlling the moth once it has become established.

One is to thin the fruit after it has set, removing as far as possible such specimens as show the presence of the worm. This is done after the first generation have entered the calyx. All infected fruit should be buried six inches deep. Do all the packing in the orchard. Store the fruit in tight buildings so any moths which emerge will be unable to get back into the orchard.

Spraying is the best remedy. It covers the leaves and fruit with a poison which will kill the young caterpillars when feeding. An application just after the blossoms fall to catch the very young while feeding on the foliage, and another two or three weeks later is recommended for the first brood. The second spraying should take place when the young apple or pear is upright with the calyx (the old blossom) open. This lasts a few days and can be determined by watching the trees.

Later spraying may be required if the second brood is numerous. The only feasible method to determine the time is to spray twenty-one days after the majority of the cocoons of the first brood are found.

The poisons used are various arsenical compounds such as Paris green, Scheele's green, London purple, arsenites, and arsenate of lead. The latter gives the best satisfaction, being ready made, easily mixed, practically insoluble (no burning), holds in suspension white in color, and sticks well. Where Bordeaux mixture is used the poison may be carried in this.

Paris green is used at the rate of one pound to one hundred gallons and arsenate of lead (also sold as Disparene) at the rate of five pounds to the same amount of

liquid. The spray must be put on under high pressure to drive a fine mist which will thoroughly soak all parts.

Banding the trunks with cloth or burlap to furnish convenient places for pupation have proved successful on smooth barked trees. These are used in conjunction with spraying or in only slightly infested districts. The bands are of dark colored cloth, ten or twelve inches wide fastened around the trunks and large branches. These are visited at intervals of ten days and the pupating insects killed.

In all work against the codling moth be thorough, be careful, be generous with any spray, and do it on time.

R. Z. Adams.

The Grape Hyacinths (Muscari)

These bulbous plants are not as common in gardens as they deserve to be. They may with freedom be classed amongst the early flowering bulbous plants. In spite of the disagreeable weather, their flowers have been a source of pleasure for several weeks. In a small border, with a southern exposure, which is in front of one of our greenhouses, they began to blossom in March and are still in bloom. Later on they will make an excellent show in the herbaceous border where they have been planted liberally.

The grape hyacinths belong to the lily family and there are about forty species, but not more than one quarter are in cultivation. They are natives of Europe, Asia, and Africa.

In the front row of the herbaceous border they are charming plants giving satisfaction in a sunny position and doing equally well under the shade of trees. Large masses in the rock garden give pleasing effects. They are not fastidious about soil but, if anything, they prefer a light, well drained one. The bulbs are cheap and therefore should be planted in good large colonies, which shows them when in flower to much better advantage than when only a few are planted in a clump. When once planted they may be left for several years without disturbing them. The bulbs are best planted during September or October.

Muscari botryoides, from a gardening point of view, is the most useful. For spring gardening effects it will hold its own with any of the other early flowering spring bulbs. Its flowers are densely arranged on stout spikes eight or nine inches high, and their color is a pleasing blue with the lower ends of the petals tipped with white. The white variety of this species (Muscari botryoides alba) is a charming plant and its spikes of white flowers resemble small white candles rising above the mass of green foliage. This species and its variety are excellent for forcing, and show to best advantage in shallow pans about eight inches in diameter.

The feather hyacinth (Muscari comosum monstrosum) is very distinct and grows nine to twelve inches high. Its flowers are of a mauve color and resemble very much clusters of purple feathers. Rather pleasing when grown in masses.

Muscari racemosum is a common kind which grows vigorously but its flowers are of a duller hue and not quite as pleasing as the other species. Other kinds that are worthy of a trial in a warm sunny border are: Armeniacum, concinnum, moschatum, racemosum, and Szovitsianum.

Robert Cameron

NEWS OF THE CLUBS AND SOCIETIES

AMERICAN ROSE SOCIETY.

Some Notes by the Secretary.

The exhibition of the American Rose Society held in Washington, D. C., last month, and the publicity given by the press, has made it apparent that a widely extended interest in the affairs of both rose growers and local societies in various places exists and, aside from organizations or growers, also from people of cultured tastes, who address the secretary for information, show an interest that is widespread and leads me to give some facts pertaining to the working of the society and the preparation for the shows.

Looking over the florists' trade papers, there are dozens of advertisers offering roses of all classes for sale, each one of whom could assist the society as a working popular force by joining as members. The American Rose Society is gaining in a life membership fund, but the sustaining membership is absolutely required, and this may be supported by every rose grower in America without being a burdensome expense to themselves.

A photograph of the exhibition, now before me, gives a fine reproduction of the beautiful effect as one entered the hall at evening with the full effect of the electric lights pouring down over the great square hall with its wealth of color and form that at once took the eye. This photograph gives the permanent impression of the show. But 48 hours before, the secretary, as he faced the same space, all ready to fill up, which the Florists' Club of Washington had worked so hard to make ready, was puzzled when at 5 o'clock the night before the show was to open, a gentleman from New York city said: "This looks well, but what have you got to fill it up with?" At that instant every entry of all degrees counted thirty-seven vases—a drop in the bucket only. A few Washington men gathered and the word was passed, "we will have a show if we have to empty our own houses." Here was a perplexity to those on whose shoulders rested the responsibility of getting up an exhibition; at the last minute they were in ignorance of what was coming and the work of preparation was done on faith.

It was ten o'clock Tuesday night when a despatch came from M. H. Walsh, saying "I am leaving Boston with a carload of Ramblers." This despatch was like General Sherman's signal "Hold the fort for I am coming," then came a despatch from Pierson saying "We have missed a train but will be there with some fine blooms." Wednesday morning, (the show was to open at noon,) came load after load from one and another who had started the afternoon or night before but had sent no word, hence we were in the dark. Three or four who had entered were disappointed at last, but by noon time all doubt had vanished as to a Rose Show. The roses were on hand. The judges, Messrs. Craig, Kasing and Hauswirth, could not begin work until late and at this point I wish to give out to all future exhibitors—try and let whoever is in charge know ahead that you will come.

There is a whole lot of detail work in arranging these shows and such shows as the American Rose Society does put up are worthy of the visitation of thousands of people; the sight is one of beauty. The prizes taken numbered 55. The Dorrance prize trophy was carried off by Robert Simpson of Clifton, N. J. This is the first time anyone has captured that prize; Lord & Burnham's prize was won twice by George Burton and according to the terms of presentation he now owns it. Wm. H. Elliott carried off the first which was put up by Messrs. Moore, Hentz & Nash, of \$15.00 to go to the man who did the real growing; this was John Pritchard; the second prize, \$10.00, went to Wm. Ahlers, who grew for president Robert Simpson.

The number of special prizes offered in Division F and G was 32 and of these 8 were not won. The W. A. Manda prize of \$25.00 in gold is to be won next year. John Breitmeyer & Sons place their \$25.00 in the treasury for next year. Alexander Montgomery's cup remains for next year also. The Hammond prize of \$10.00 for best foliage rose for dooryards remains. This is as far as heard of from the layovers.

The Rose Society, by invitation of the Chicago Florists' Club, goes to that city in March, 1908. We want 1000 rose growers in the big centers and in the villages from east and the west, from the northland and the southland, to join us as associate members and we want to send to each some frequent reminder so as to keep in touch one with the other and when we hold shows hereafter we want the people to come to see them. The best card we had in Washington was to invite the school children with their teachers and the little folk came in flocks; two of President Roosevelt's boys were there and well-behaved and mannered lads, too.

BENJAMIN HAMMOND,
Sec. American Rose Society.
Fishkill-on-Hudson, N. Y.,

AMERICAN ASSOCIATION OF NURSERYMEN.

The Committee on Exhibits are ready to receive applications for space at the forthcoming Convention of the American Association of Nurserymen to be held at Detroit, Mich., June 12th, 13th and 14th, next. Application blanks can be secured from the chairman of the committee and any information required can be secured from him. The committee have decided that no application for space will be considered after the 1st of June, and all exhibits must be in place at the Exhibition Hall not later than Tuesday evening, June 11th.

Application for space must be made on blanks to be furnished by the committee. Exhibits of every character, that will be of interest to nurserymen, are solicited. Trees, shrubs, fruits, implements and machinery and such devices that are or can be used by nurserymen, are especially desired.

The committee are anxious to make this the most complete exhibit ever made at the convention and earnestly

request intending exhibitors to take the matter up with the chairman of the committee as soon as possible, so that arrangements can be made in good time. Members of the Association will confer a favor on the committee by advising them at once of the names of any manufacturer of tools or implements used by nurserymen so that an exhibit can be solicited from them.

THOMAS B. MEEHAN,
Chairman.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The annual sociable and ladies' night of this club was enjoyed on Wednesday evening, April 24, at Horticultural Hall, by a happy company of 160, of whom about one half were ladies. From the start, all preparations for the event had been committed to the care of Treasurer Edward Hatch, past-master in the art of managing such affairs. Efficient committees had acted under his direction and the result was a perfect success in every particular. The display of flowers on the banquet tables, on the stage and the walls was lavish and tastefully arranged. A number of witty mottoes adorned the walls and provided amusement for those interested. Among the donations of flowers were roses from Waban Rose Conservatories, gardenias from W. N. Craig, orchids from Duncan Finlayson, carnations from Peter Fisher, antirrhinum from Wm. Swan, Whitman fern from H. H. Barrows & Son, miscellaneous flowers from Welch Bros., and plants from W. W. Edgar Co. Ed. Hatch presided over the very brief proceedings, which required regulation after he had stood up, clad in a mammoth boutonniere of orchids on one lapel and one of rhododendrons on the other, and advised everybody to fall in and demolish the viands. The only speeches were by President Westwood, Secretary Craig, J. K. M. L. Farquhar, the Mayor of the city of Lowell and his right bower, Mr. Whit-tet. The dinner was one of the best ever provided for the club. An orchestra discoursed good music, and after the tables had been cleared, dancing was enjoyed until midnight under the direction of Floor Manager Peter Miller, previous to which Jackson Dawson sang a favorite song and led the chorus in several popular songs of the olden time.

LENOX HORTICULTURAL SOCIETY.

The regular meeting of the above society was held on April 20, President Heeremans in the chair. The assistant secretary's resignation was accepted with regret, and E. Faucett was elected to fill the vacancy. After adjournment refreshments were served and several of the members entertained by speech-making and singing. Mr. Eustace Jaques presented the society with a magnificent silver cup for competition at the fall exhibition, and was heartily thanked by President Heeremans. The following exhibitions will be held by the society in the Lenox Town Hall: rose and strawberry, June 26; annual and perennial, August 15; the fall exhibi-

tion, Oct. 23 and 24. The schedules are out for the same and can be had upon application to the secretary.

STATE FLORISTS' ASSOCIATION OF INDIANA.

The annual spring exhibit of this society was held at the State House, Indianapolis, on April 11, with a large attendance and a good representation from the growers of the immediate locality in the exhibition hall. Certificates of merit were awarded for carnations to R. Witterstaetter for Afterglow, 91 points; B. K. & B. Floral Co., for Purity, 86 points, and Bertermann Bros. Co., for Seedling 340, 75 points. Other awards were as follows, first and second respectively:

Two pans tulips, M. Nelson, second. Two spiraeas, M. Nelson, first. Display 24 square feet, J. Grande, first. Twelve white roses, The E. G. Hill Company, with Frau Karl Druschki; Smith & Young Company, second. Twelve pink roses, Smith & Young Company, P. O. Tauer, Lebanon, Ind. Twelve red roses, B. K. & B. Floral Company, Richmond; Smith & Young Company. Twenty-five white carnations, B. K. & B. Floral Company, Baur & Smith. Twenty-five pink carnations, Chicago Carnation Co., with Aristocrat; Bertermann Bros. Co., with Mrs. Lawson. Twenty-five light pink carnations, Stuart & Haugh, Anderson, with Enchantress. Twenty-five red carnations, J. D. Thompson Carnation Co., with Robert Craig. Twenty-five carnations, any other color, Bertermann Bros. Co., with Harlowarden; B. K. & B. Floral Company, with Ruby. One hundred double violets, J. Grande. Six plants, lilies, M. Nelson, second. Twenty-five daffodils, J. Grande, M. Nelson. One hundred sweet peas, Baur & Smith.

NEW LONDON HORTICULTURAL SOCIETY.

At the meeting on April 15 the certificate of incorporation was presented for signatures and fifteen names were affixed. After the certificate has been properly indorsed by the Secretary of State a meeting will be held for the adoption of a constitution and by-laws and election of officers. The speaker of the evening was Herman Grove of New Haven, whose talks upon vegetables and roses were practical and interesting.

CLUB AND SOCIETY NOTES.

The Nassau County Horticultural Society at their meeting at Glen Cove, L. I., in April decided to hold the fall exhibition on three days instead of two, November 6, 7, 8.

The premium list for the June exhibition of the Newport Horticultural Society has been received. The show will be held on June 26 and 27 at Masonic Hall. The schedule is liberal, comprising 51 classes for plants, flowers, fruits and vegetables.

TO OUR CANADIAN READERS.

The new Canadian postal schedule subjects us to a rate of four cents a pound in place of one cent a pound, as heretofore, on all copies mailed to Canada. In consequence we are obliged to advance our Canadian subscription price to \$1.50. All subscriptions now on our books will be carried at old rates, however, until completion.

THE CARE OF STEAM BOILERS.

In the rush of spring work the boilers are very often neglected. Other things demand immediate attention, and with the thought that the season for firing is almost ended the boilers are left to some more suitable time. Preparations for shutting down the boilers ought to begin at once, for cleaning the interior of them will be easier later on if the work of getting them in shape is started now. With the fires banked through the day there is greater danger of the boiler wearing out than if it was being run. Pitting is the most dangerous thing we have to guard against. Some waters have a tendency to increase that form of weakness more than others, and if precautions are not taken, pitting will be found to have increased more in an idle boiler than in one in use, and steel boilers are more to be feared than iron, as the steel seems to pit very easy. Soda ash, I find, is the best preventive, both for pitting and scale. From five to ten pounds (according to size) put in a boiler now will save much trouble and expense later on; besides keeping the boiler clean, it will also keep the heating pipes from rusting inside.

I suppose every one has had trouble with the nut of the handhole plate in the back of the boiler. Sometimes it is very troublesome getting the nut off the thread, the heat in the combustion chamber being so great that the thread on the stem is burned, and getting the nut on and off is no easy matter. A cloth soaked in kerosene put over it assists very much, but often there has to be a new stem put in the plate. There are two ways I know of which overcome this difficulty. One is getting a cast iron nut which can be broken and the plate then taken off, but I find the best way is, when putting the plate on in the fall, to get some asbestos, wet it with water, beginning at the boiler and working out to the point of the stem, covering up everything; it will be found that this has kept the thread and nut away from the direct action of the flame, and with the application of some kerosene the nut will come off and the threads will be found uninjured. This is inexpensive and practical. I put in applications of soda ash every three or four weeks during the firing season, about two or three pounds at one time, and run off about one gauge of water once a week, doing this while there is no steam on.

In laying a boiler off for the season I find the best way is to cool the boiler, and when thoroughly cold run off the water, open handholes and manhole, and with a hose wash every part of the inside, using all the pressure possible. When all cleaned out, force the hose down the blow-off pipe and wash that out thoroughly, for should there be any scale it may be caught in the seat of the blow-off valve and cause trouble. Begin under the boiler, take out every particle possible of soot and ashes, sweep the inside walls down with a broom and up along the sides of the shell where it cannot be reached by hand, brush out the tubes, then begin with a hard scrubbing brush, scrub the shell and heads (dry), going over with a cloth, wiping off any dust that may be left; then thoroughly sweeping everything back to the combustion chamber floor, where it may be easily taken out; close the damper

in the chimney, open the front cleaning-out door, and your boiler is ready to lie safely idle all summer. I know from experience that the above work is far from being clean, but the results are satisfactory afterwards, and a bath will wash off anything that may have stuck to you while the work was being done. R. T. MCGORUM.

HIMALAYAN RHODODENDRONS.

Editor of HORTICULTURE:

I deem it proper to call your attention to an evident misprint in your issue of April 13 in connection with the parentage of *Rhododendron* Mary Weld which reads "Princess May Fitzwilliam." Also to a misconception of my own given on the spur of the moment when asked to name its parentage, which I gave as Princess Mary Fitzwilliam which should be Lady Mary Fitzwilliam and *Rhododendron* Veitchi *laevigatum* variously termed Veitchi or Veitchianum. Under the former term a fine photographic picture of this parent is given in the *English Garden*, Vol. XXX, page 237, 1886.

According to some authorities *laevigatum* as applied in this instance indicates the varietal distinction of having the petal edges of the corolla smooth instead of being frilled or undulated. Notwithstanding that, I got this varietal *rhododendron* from Messrs. Veitch, if my memory serves me right, under the above name, but according to definition as above stated I must have had the plain Veitchi, for the petal edges are decidedly wavy or frilled. I want to emphasize this, as it is in this particular that the newcomer is chiefly distinguished from its seed-bearing parent, Lady Mary Fitzwilliam, the flowers of *Rhododendron* Mary Weld showing plainly the crumpled edges of the pollen parent's petalage with their more waxy texture, and a decidedly larger and deeper yellow suffusion in the throat of the individual flower, devoid also apparently of any taint or suspicion of pink that generally is observed in the petalage of the seed-bearing parent.

In other respects the foliage and habit seem to be identical with that of the mother parent, but age may change this somewhat, as *Rhododendron* Veitchi is much more robust and arboreal in stature and habit than the other.

The delightful fragrance characteristic of the Himalayan section of *rhododendrons* under consideration is very marked; the foliage is very distinct too from the so-called *Javanicum* section, the former being characterized by a leathery rugose Indian *azalea* leafage including the pronounced fragrance alluded to, arising largely from the blood of *Rhododendron* Edgeworthii, the latter being a half parent of an earlier beautiful hybrid, Princess Alice. The *Javanicum* section as a rule has smooth leaves somewhat resembling the common hardy *rhododendron*, but of course smaller.

Amongst the newer and older hybrids are to be found some of the finer gems of the floral kingdom.

KENNETH FINLAYSON.

Take out the geraniums and salvias from my advertisement. Through this advertisement in HORTICULTURE I have disposed of my surplus stock of both. R. L. GOINSALVOS, Waltham, Mass.

HARDY OUT-DOOR ROSES.

(Paper read by David McFarlane before the Tarrytown Horticultural Society.)

Hardy out door roses is a theme which interests to some extent most men in the profession, and I may safely add and more of the flower-loving public than any other flower topic.

George Nicholson says "The rose is justly designated the Queen of Flowers." We will concede that from the most ancient period this Queen of Flowers has won all her laurels meritoriously, and treat on her adaptability to satisfy the whims and fancies of this modern and fickle public. The so-called hardy outdoor roses, with but few exceptions, possess extremely poor qualities for the general embellishment of the landscape from an artistic point of view, consequently we cultivate the majority because of their excellence for house decoration as a cut flower and their unique colors, fragrance, purity and individuality. So many are the varieties of roses now in commerce that to make a selection is no easy task, and as the most have been hybridized in France, Germany and Great Britain, many that carry the highest honors in the lands of their birth are a sad disappointment when grown under our more extreme temperature. Yet, if a collection of, say, three hundred well selected varieties were once established on a place the chances are that not one of them would ever be discarded, for we might say, especially of Hybrid Perpetual roses, that the color and form of one variety is so near in resemblance to another, and yet so distinct, that we decide to keep both because of their characteristic individuality.

The grandest of all rose blooms are found in the class generally designated as Hybrid Perpetuals, but the word Perpetual applied to the blooming of these roses, I regret to say, is very much in error in our climate. While a bloom or so may be found later in the season we have to console ourselves with the fact that the flowering season for these roses is during three weeks in June. If this fact alone were judiciously taken into consideration it would eliminate many a rose garden from such a prominent position in the landscape, while at the same time detract nothing from the general interest displayed in the rose. The best place for a rose garden is one that cannot be seen from any distant point, but one where a host, or hostess can guide his or her guests and land them by surprise among the rose beds or under the arbor in the season of bloom, and while the plants are at work preparing for next June they will not be critically commented upon for their rustic looks.

The rose is a strong feeder and is best suited in a heavy moist, but well drained soil, and if they can be planted with a shade from the east but by no means an overhead one—so that the dews will hang on until 9 or 10 A. M., so much the better, as I consider this the best location for roses. The best time to plant hardy roses is in the fall, about the first or second week in November. In planting be sure that the graft is well buried; in strong growing varieties I recommend a depth of seven or eight inches, and

the weakest growers should not be any less than four inches below the normal surface of the soil. Roses planted at this time should be laid down at once and covered over with three or four inches of soil; in that way they will keep over the winter and turn out plump and fresh in spring.

If it is compulsory to plant roses in spring have it done just as early as the ground will permit, for there is no plant that I know of suffers from late planting as much as the rose. Should your plants show the least signs of shrivelling when received in spring, dig a trench and cover them entirely with about eight inches of soil for three or four days and, unless they have been all the more dried out, you will generally find the wood and buds quite plump when you lift them from the trench. If any wrinkles remain on the bark the chances are that these plants will die, and should they survive the growth, will be extremely poor for the first season.

The last week in March or first week in April is generally the best time to prune Hybrid Perpetual roses, as at this time all danger from damaging frosts is past, so that we can spread what covering has been used for winter protection, and after the pruning is done give a good loosening up of the soil with a spading fork and they are ready to start work. Few gardeners prune their rose bushes close enough; with but a very few exceptions I prune down to from one to four inches of the soil and these exceptions are only such roses as Margaret Dickson, General Jacqueminot and Prince Camille de Rohan, which are apt to run blind on the extra strong shoots from the bottom. Even with these varieties care should be taken to cut out all two-year-old wood close to the soil.

If the manure used for protecting during winter is dug in in spring no additional fertilizer need be applied until the 20th day of May, when liberal application of some stimulant—pure bone meal, a good grade of commercial fertilizer, or liquid manure from the barn yard, which ever is convenient—is of great benefit, and should the weather be dry from this time until the flowering period is well over, the ground should be well saturated with water, and where the soil is very light a mulch of from four to six inches of litter or cut grass is good to retain moisture and also to keep the roots cool, although it adds nothing to the beauty of the beds. I would prefer litter instead of the grass as a mulch, as I have seen the grass during a dull spell create a bad dose of mildew. If a mulch has been used up to and through the flowering period it should be removed early in July and the beds kept well cultivated from then until October.

The best way to grow Hybrid Perpetual roses for cut bloom is in rows in the garden, and I would advise everyone to give them plenty of room between the rows, three feet or more; they may be set fifteen to eighteen inches in the rows—this enables you to draw up the soil to the heel of the plants for winter protection before placing the manure around them. Another advantage it lends in spring is that when you remove the manure the cavity in the centre will hold quite a lot of it, where it can be deeply forked

in; this will cause fresh root action over a wide space. As the root is the driving power for the top and our aim is to produce a good bloom on a long stem with good foliage, I have never seen this method fail even on light sandy soil.

Most men who have written on the rose advocate the soil to be left good and firm and only forked up to a depth of a few inches in the spring. This is contrary to my experience for good results, as I never hesitate to put the fork as far in as the foot will send it, seven or eight inches away from the neck of the plant. No doubt by this operation a great many roots are broken, but it is at a time when the plant is dormant and we have just cut all of its top away and I think that the young roots will work through the loose soil with a vigor that will soon more than compensate for the rough pruning they have received.

Hybrid Perpetual roses should not remain undisturbed more than seven or eight years, after which they should either be replaced with young two-year-old stock or else carefully lifted, placed over a chopping block and all the thick fiberless roots removed with a sharp hatchet. Roses treated in this way are in many cases as good as younger stock. Care should be taken not to treat all in one season as Hybrids give very poor results the first season after being planted. Roses grown for cutting or exhibition purposes should be disbudded, leaving only the strongest bud on each shoot, which is generally the center one, and, where roses are grown especially for exhibition, the small weakly shoots may be removed at an early stage, although the latter is seldom necessary where the operation of pruning has been perfectly performed in early spring, for in that operation no wood should be left that is likely to throw up a weak growth.

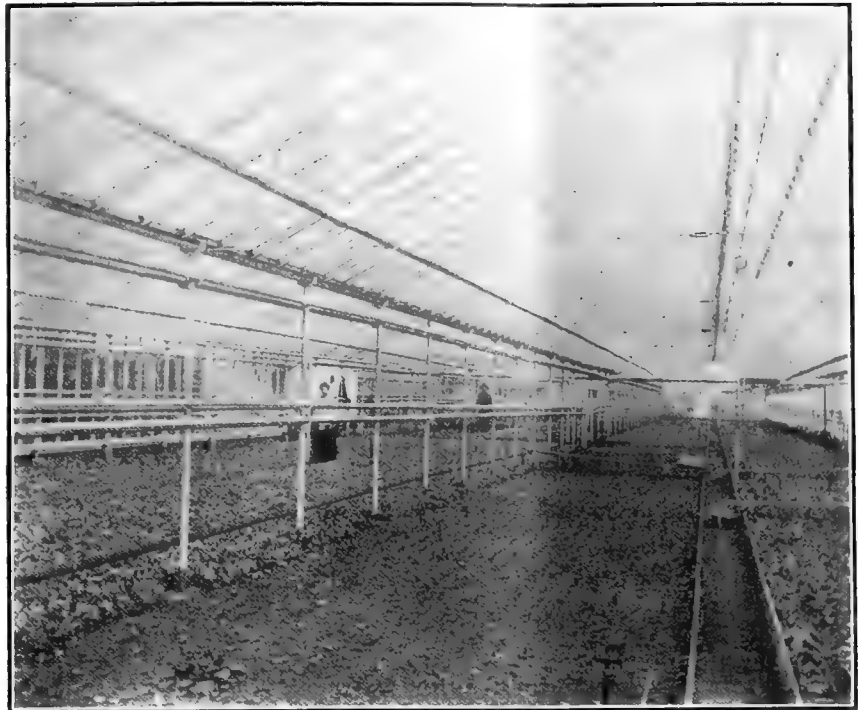
The following are varieties that I have found worthy of a place in any collection. I will not try to describe their colors in shades. I might here make a suggestion for The American Rose Society, of which one of our esteemed members is ex-vice-president, to take up and see if a standard color chart could not be produced. I think it would aid compilers of catalogues in describing varieties in a more satisfactory form to their patrons: White—Frau Karl Druschki, Margaret Dickson, Merville de Lyon, Mabel Morrison, Jules Finger, White Baroness, Merville de Blanchess, Helen Paul, and Clio. Pink—Mrs. John Laing, Mrs. R. G. Sharman Crawford, Mrs. Frank Cant, Mme. Gabriel Luizet, Pride of Waltham, Robt. Duncan, Paul Neyron, Paul's Early Blush, Marguerite de St. Amande, Marchioness of Dufferin, Lawrence Allen, Jeannie Dickson, Ellen Drew, Magna Charta, Abel Grand, Alphonse Soupert, Baronne Prevost, Baroness Rothschild, Duchess of Edinburgh, Francois Michelin, Jules Margottin, Mme. Eugenie Verdier, Duchess of Fife, Duchess de Vallombrosa, Dupuy Jamain, Duchess of York, Mme. Geo. Paul, Marquis de Castellane, Mrs. Cocker, and Mrs. Harkness. Red and other shades—Ulrich Brunner, Jubilee, John Hopper, Jean Liabaud, Jean Soupert, John Bright, Lady Helen Stuart, Longfellow, Lord Macaulay, Lord Frederick Cavendish, Madam Ferdinand Jamain, Eugenie Verdier, Louis Van Houtte, Horace Vernet, Grand Mogul,

Gloire de Margottin, Gloire de l'Exposition de Bruxelles, Earl of Dufferin, Earl of Pembroke, Eclair, Exposition de Brie, General Jacqueminot, Fisher Holmes, Prince Camille de Rohan, Paul Verdier, Paul Jamain, Pierre Notting, Mrs. Jowitt, Mrs. Harry Turner, Star of Waltham, Victor Hugo, Victor Verdier, Tom Wood, Waltham Standard, Mlle. Annie Wood, Marie Baumann, Marie Rady, Maurice Bernardin, Mlle. Suzanne Marie Rodocanachi, Mme. Chas. Wood, Mme. Lelievre Delaplace, Duke of Connaught, Duke of Edinburgh, Duke of Fife, Countess of Oxford, Chas. Lefebvre, Chas. Lamb, Captain Haywood, Bob Davison, Bruce Findlay, Ben Cant, Baronde Bonstettin, Prince de Portio, Abel Carriere, Alfred Colomb, Anne de Diesbach, Chas. Margottin, Eugene Furst, Francois Levet, and Marshall P. Wilder. No collection of roses is complete without a few of the Mosses. They require the same treatment as the Hybrids. The following I have found the best: Common Moss, Crested Moss, Gracilis, Little Gem, Muscosa Japonica, Crimson Globe and Blanche Moreau.

For rose beds in prominent places I would recommend the following varieties: Pink and White Mme. Cochet, Grace Darling, Viscountess Folkestone, Safrano, Hermosa, Gruss an Teplitz, and the Polyantha Baby Rambler. A whole bed of one variety is always more effective than any attempt to mix them, and a suitable edging of sweet alyssum, verbenas, or any low-growing continuous flowering plants will help show them off. All decaying blooms should be frequently picked off and they should always be gone over after a heavy rain. These roses, with the exception of Baby Rambler, are either Tea or Hybrid Tea, consequently are not so hardy as the Hybrid Perpetuals, and should be extra well protected during winter. They should not be pruned nearly so far back in spring.

No class of rose has gained in popularity in the last fifteen years as has the climbing roses. This I may say is due to the adventitious Crimson Rambler, which is now no more a stranger to the humble cottager than the millionaire, but the Crimson Rambler may justly be credited with the stimulant she created amongst hybridizers, the results of which are now demonstrated to us in a vast variety of sterling merit of which the Yankee hybridizer deserves a good share of the credit. For covering arbors, trellise, fences, pillars, or planting along side of buildings and high walls in conjunction with other climbers, nothing is more effective than these Rambler roses. The best and hardiest varieties are found in the Rambler or Polyantha class, although some of the Wichuraiana hybrids are extremely useful for this purpose, but some of them cannot be classed as hardy roses, many having too much Tea blood in them to be able to stand our winters. I have seen large plants of Gardenia, Jersey Beauty and Evergreen Gem completely killed with a moderately cold winter. They are better adapted generally for covering banks and low projecting rocks, and when mixed with honeysuckle are extremely valuable for landscape work. The following are good varieties of climbing roses: Dorothy Perkins, Lady Gay, Dawson,

HOUSE OF LETTUCE AT IRONDEQUOIT.



This illustration shows the new house, 76x240, on the garden farm of Frank Titus. Irondequoit, N. Y. Its

capacity is 50,000 heads of lettuce. The boiler is 150 horse power, consuming 100 tons of coal per season. Built by King Construction Company.

Leuchstern, Psyche, Crimson Rambler, Sweetheart, Debutante, Lynch's Hybrid and White Wichuraiana. Pillars and various shaped trellises may be covered with roses in the front and rear yards of the small cottager, and many of the strongest growing Hybrid Perpetual varieties, as well as the so-called pillar roses, may be used for this purpose. Some of the best are Baltimore Belle, Queen of the Prairie, Gem of the Prairie, General Jacqueminot, Mme. Plantier, Magna Charta, and Marshall P. Wilder. Climbing and pillar roses must not be cut far back in spring, but the oldest wood should be cut out occasionally, and this is best done just after the flowering period, taking care that you have a good young growth from the bottom for every old one you cut out. All that will be necessary in spring will be to cut back to suit the space desired to be covered.

Some varieties of roses may be used for hedges, but I think there are other plants that adapt themselves better for this work of the rose. The best rose for this purpose is the Hybrid China, Mme. Plantier, although some of the Austrians, of which Persian Yellow is the best, may also be used. Rosa rugosa can vie with the best of flowering shrubs for ornamental mass planting, of which Alba and Rosea are the best. These should also be cut well back in spring and induced to throw up strong shoots from the heel.

The rose, like all other good things in floriculture, has its bug enemies. White scale or rose scale is often troublesome on climbing, pillar, or standard roses, where the wood is over a year old it is generally worst. A thorough spraying with Pratt's Scalecide, one portion of Scalecide to twenty of

water applied with a fine nozzle in late fall or early spring will kill this pest. Caterpillars must be carefully guarded against. I generally find one application of powdered hellebore sufficient to keep these in check. This should be applied about the 20th of May. The best way I find is to use it in liquid form, one tablespoonful of hellebore to fourteen quarts of water sprayed on during the afternoon of a bright, dry day. One should not wait until reminded by the half-eaten leaves before using hellebore, as the caterpillars are sure to visit you about the time I have stated. Another great enemy of the rose is a little white thrips, but this seldom attacks roses in the open garden, but look out for your climbers on buildings or pillar roses if in any way shaded by trees. I find strong applications of tobacco water the best for keeping this thrips in check, but generally it has to be repeated at intervals throughout the season, commencing about the 10th of May. Aphis is sometimes troublesome. If so, tobacco just applied late in the evening is the surest remedy. But, gentlemen, the worst of all bugs that we have seen in late years is the genuine Rose Bug that devours the finished product and has vexed all admirers of the rose along this section of the Hudson river for the last two years. I have seen arbors of roses with the blooms literally covered with these bugs, and scarcely one bloom free from its ravages. Killing by hand seems to be the only way to destroy this pest, but even this is small satisfaction, for we are unable to save our blooms. If I could prescribe a remedy to eradicate this pest this paper would have been at least worth the ink that has been spilled upon it.

SEED TRADE

While California and the Pacific Coast generally have been deluged with rain, there has been a more or less extended drought in the middle west which has threatened seriously the prospective winter wheat crop, and if it continues much longer will affect the seed growers particularly in the matter of the sugar corn and vine seed crops. There is no immediate cause for anxiety, and perhaps it may be well not to borrow trouble, but in view of many predictions of crop shortage due to drought it is simply referred to here.

News from California the past week is of a negative character yet there has been some improvement in conditions in the onion belt. It will be sometime however before a reliable forecast can be made of the real situation.

The protracted cold weather is having a more or less harmful effect on retail seed trade in New England generally, and in fact New York State and even Philadelphia, and it looks now as if the closing months of the season will be somewhat disappointing. The indication of an early spring so promising in March, have proved disappointing, and while trade on the whole is, and has been good, the season taken altogether will be somewhat unsatisfactory.

The "green bug" which is just now such a cause of anxiety to the wheat growers of the west, is only our old friend the "pea louse" or Aphis. The fact that this pest can destroy millions of acres of growing wheat shows how destructive it can be, and it prefers peas to wheat, showing a fine discriminating taste. It may yet be heard from among the pea fields of Wisconsin and Michigan.

There seems to be no "wrong side" of the street for J. M. Thorburn & Co., as they report a larger business than ever before. Their clientage is a most loyal one, and is the cause of just pride to this reliable old house. Verily square dealing brings its own reward.

The many friends of Rennie & Thompson hope and believe their embarrassment will prove to be only temporary. Reasonable indulgence on the part of their creditors will no doubt enable them to weather their present difficulties, and as they are two exceptionally energetic and bright young men it is generally agreed that if they can tide over the present crisis their future is assured. It is understood that their troubles are mainly due to the shrinkage in value of certain securities which they had pledged as collateral for loans, but these will no doubt advance again to the level of values when they were pledged. This firm is only one of thousands which have felt the effects of the late monetary disturbance.

We learn from Columbus, O., that the seedsmen have been having a comparatively slack counter trade for April, although mail orders continue steady and in fair volume, and that it begins to look as if even seasonably warm weather would fail to start a rushing trade again this year, as it is

now so late in the season. The weather still continues very raw and cold.

CATALOGUES RECEIVED.

F. M. Pattington, Scipioville, N. Y.—Market garden seeds and plants.

J. W. Howard, Somerville, Mass.—Hardy plants, bedding plants, bulbs and seeds.

Huntsville Wholesale Nurseries, Huntsville, Ala.—Wholesale price list, for the trade only.

S. J. McMichael, Findley, O.—Wholesale Trade list of Vegetable, Greenhouse and Bedding Plants.

D. McNallie, Sarcoxie, Mo.—1907 Catalogue and Price-list of Strawberry Plants. 75 varieties listed.

Chattanooga Nurseries, Chattanooga, Tenn.—1906-07 Catalogue of Fruit and Ornamental Trees and Shrubs.

Continental Nurseries, Franklin, Mass. Wholesale list of herbaceous plants, evergreens and deciduous shrubs.

George S. Josselyn, Fredonia, N. Y.—Condensed price-list of grape vines, currants, gooseberries, etc., for spring of 1907.

C. H. Totty, Madison, N. J.—1907 List of Chrysanthemums, Roses, Carnations and Moschosma riparium. Illustrated.

Mt. Arbor Nurseries, E. S. Welch, Prop., Shenandoah, Ia.—Illustrated and Descriptive Catalogue of fruit and ornamental trees and shrubs.

F. W. Dixon, Holton, Kan.—20th Annual Catalogue of Strawberries and other Small Fruits. Contains practical directions on strawberry culture.

Pleasant Valley Nurseries, Arthur J. Collins, Prop., Moorestown, N. J.—Fruit and ornamental trees, perennials, etc. Contains a useful spray calendar.

T. S. Hubbard Company, Fredonia, N. Y.—Descriptive list of Grape Vines and Small Fruits. Illustrated with some superb half-tone grape portraits.

R. M. Kellogg Co., Three Rivers, Mich.—The New Horticulture; great crops of strawberries and how to grow them. Very interesting and convincing.

Winfield Nurseries, Winfield, Kans.—Descriptive Price-list of Fruit Trees, with colored plate of Japan Blood Dwarf Peach. Also Surplus and Want List, for nurserymen only.

Conrad Appel, Darmstadt, Germany. Spring catalogue for 1907 (118th year). List of valuable forest tree and grass seeds. Contains many interesting illustrations, and a complete crop report for the season.

Elm City Nursery Co., New Haven, Conn. Catalogue and price list for 1907. A miniature encyclopaedia of desirable ornamental trees, shrubs and herbaceous plants. The cover is both unique and rich.

Shatenuic Nurseries, Barrytown, N. Y.—"Select Plants for the Garden Border." This is an elegantly printed little catalogue of 32 pages and cover, finely illustrated. Tritoma uvaria forms a spirited cover illustration.

Thomas Meehan & Sons, Inc., Dresherstown, Pa.—Meehan's Manual of Outdoor Plants, 44th Edition. Also Wholesale Trade List for Spring, 1907.

A very complete list, containing a colored plate of the variegated-leaved althaea. Cover in imitation of birch bark.

Peter Lambert, Trier, Germany. List of new roses for 1907. This includes the introductions of the English and continental raisers, and six of American origin, in all classes of hardy and tender roses. The Hybrid Teas comprise nearly one-half of the entire number listed.

Frederic J. Rea, Norwood, Mass.—Hardy Flowers, 1907. A catalogue of popular hardy herbaceous perennials, roses, shrubs, vines, etc. A carefully compiled list giving botanical name, common name, color, height, season and price in tabulated form. Many rare species are included and this neat little work is full of instruction for the garden enthusiast.

Biltmore Nursery, Biltmore, N. C.—List of Ornamental Trees and Shrubs and Border Perennials. No expense has been spared to make this the finest publication of its kind. The illustrations are marvellously beautiful showing the fine art of photographer, engraver and printer in rare perfection. One can almost catch the fragrance of the wild roses, honeysuckles and nymphaeas as the pages are turned. A heavy cover in dull grey-green on which is represented a spray of Cornus florida adds to the attractiveness of the book. As to the contents they comprise everything worth planting in the hardy garden.

STATEMENT OF PLANT IMPORTS.

There were entered at the port of New York during the week of April 15 to 22, inclusive, the following plants:

From Holland: H. F. Darrow, 4 cs. plants; McHutchison & Co., 58 cs. do., 2 bales do.; P. Ouwerkerk, 36 cs. trees; S. Stern, 15 cs. plants; Sundry Forwarders, 66 cs. do., 67 cs. trees.

From Belgium: Lager & Hurfell, 2 cs. plants; P. H. Petry & Co., 1 cs. do., 16 tubs laurel trees; August Rolker & Sons, 25 cs. plants; J. Ter Kuile, 2 cs. plants, 12 tubs laurel trees; Sundry Forwarders, 117 cs. plants, 101 cs. trees and plants, 30 tubs laurel trees.

From France: McHutchison & Co., 12 cs. plants; Siebrecht & Sons, 1 cs. plants; Sundry Forwarders, 16 cs. trees.

Via Southampton: Rooney & Spence, 3 cs. plants; Vandegrift & Co., 1 cs. do.

From Germany: E. L. Boas, 3 cs. plants; F. Hollender & Co., 4 cs. do.; Chas. F. Meyer, 4 cs. do.; Sundry Forwarders, 23 cs. do., 2 baskets do.

BEGONIAS and GLOXINIAS



BEGONIA
TUBEROUS ROOTED
Doz. 100
Single White .50 \$3.00
Red50 3.00
Rose50 3.00
Yellow50 3.00
Orange50 3.00
Mxd Colors 40 2.50
Double colors, separate or mxd. 1.00 6.00

GLOXINIAS
Doz. 100
Mixed80 4.00
Sep'te colors .80 6.00

W. Elliott & Sons
201 Fulton St., N. Y.

PUBLICATIONS RECEIVED.

Proceedings of the 52nd Annual Meeting of the Western New York Horticultural Society, held at Rochester, N. Y., January 13 and 14, 1907. This is a very complete and interesting report, full of valuable knowledge and experience as contributed by the great fruit growing industry of the Empire State. Secretary John Hall records that the society membership has now, for the first time passed the 1000 mark. A portrait of the late George Ellwanger forms the frontispiece of the book.

Second Annual Report of the Superintendent for Suppressing the Gypsy and Brown-tail Moths, by A. H. Kirkland, Boston, Mass. This book gives a carefully prepared account of the last year's work as accomplished by the official staff and by local authorities and citizens generally throughout the State of Massachusetts. The report fills 170 pages, and is copiously illustrated, two colored plates included. Microscopic pictures of the effect of the brown-tail hairs on the human skin will be found especially interesting. This report may be had on application at the Public Document Room, State House, Boston.

Arbor Day, Massachusetts, 1907.—The pamphlet issued last year met with such an appreciative reception that it was thought best by the State Board of Agriculture to continue the publication for this year, and the edition has been increased to 3,500 copies mainly for the use of the public schools. Some of the contents are Need of an Arbor Day in Massachusetts, by Prof. F. W. Rane, Forestry Work of the Women's Clubs, by Helen A. Whittier, How to Protect Trees from Insects, by Dr. H. T. Fernald, Why Children Should be Friends of the Birds, by E. H. Furbush and several pages of general information, selections and suggestions. There are a number of instructive half-tone plates.

Thorburn's Seeds

... OUR ...

Wholesale Catalogue

for florists and market gardeners is now ready and will be sent free to all who ask for it.

We handle only the highest grade seeds. Compare our prices before ordering elsewhere. Cold storage Lily of the Valley Pips. Best possible grade, in cases of 1000 and 3000 pips each @ \$12.00 per 1000. Advance orders now being booked for Bermuda Easter Lilies. Send for prices.

J. M. THORBURN & CO.

33 Barclay St., through to 38 Park Place
NEW YORK

SAGO PALM STEMS

(CYCAS REVOLUTA)

True Long-Leaved Variety

Splendid, shapely stems, ranging in weight to suit the most particular buyer. We offer as follows: 5 lbs. at 12c. per lb.; 10 lbs. at 10c. per lb.; 25 lbs. at 8c. per lb.; 100 lbs. at 7 1-2c. per lb.; 300 lb. (case) at 7c. per lb.

JOHNSON SEED CO., 217 Market Street, PHILADELPHIA, PA.

CYCAS STEMS

A shipment of fine trunks just received in elegant shape. Plant now to have saleable plants for early winter sales.

\$2.25 per 25 lbs.; \$8.50 per 100 lbs.; \$24.00 per 300 lbs.

CHINESE PRIMULA SEED

MICHELL'S CHOICEST MIXTURE

Grown by a leading specialist in Europe contains the brightest colors and the largest blooms. 60c per 1/2 trade pkt.; \$1.00 per trade pkt.; \$2.00 per one-sixteenth oz.

	1/2 Trade Pkt.	Trade Pkt.
Alba Magnifica, White.....	60c	\$1.00
Cheswick, Red	60c	1.00
Holborn, Blue	60c	1.00
Kermesina Splendens, Red 60c		1.00
Rosy Moon, Pink.....	60c	1.00

Also PRIMULA OBCONICA in all types

Write for our Florists' and General Catalogue.

HENRY F. MICHELL CO.

1018 Market Street

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PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a large supply of exceptionally fine quality.

For the Lawn,

The Greenhouse,

For the Herbaceous Garden,

For the Flower Garden,

For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,
6 and 7 So. Market St., BOSTON.

RAWSON'S GIANT GLOXINIAS

CLOSING OUT OFFER

\$3.50 per 100

\$30.00 per 1000

IN THE FOLLOWING SHADES: DARK VIOLET, PINK,
BRILLIANT SCARLET, VIOLET EDGED WHITE,
PURE WHITE, SPOTTED, SCARLET EDGED WHITE

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High Grade Seeds for
Market Gardener,
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Catalogues Free

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PHILADELPHIA

Blue List of Wholesale Prices mailed
only to those who plant for profit.

NEW STOCKS
FLOWER SEEDS for FLORISTS

Wholesale Catalogue Ready. Send for it today.
But first read our advertisement on page 105 in the Horticulture for January 26, 1907. It is worth reading.

James Vick's Sons
Seedsmen Rochester, N. Y.

FISKE'S SEEDS
For Immediate Sowing

Also
GLADIOLUS BULBS

In variety and mixture
Our Trade List Mailed on Application
H. E. FISKE SEED CO. Faneuil Hall Square, BOSTON

Grey's Highest Grade
of Tested Seeds

Send for Catalogue

THOMAS J. GREY & CO.
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BRIDGEMAN'S SEED WAREHOUSE
RICKARDS BROS.
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37 East 19th St., NEW YORK CITY

CAULIFLOWERS
CABBAGE

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

C. C. MORSE & CO.

171-173 Clay St., SAN FRANCISCO, CAL.

The Largest Seed Growers
on the Pacific Coast

BEDDING PLANTS.

Notes on propagating and culture from paper read before Detroit Florist Club, by R. W. Unger.

Phlox, verbenas, zinnias, antirrhinum, delphinium, pentstemon, nicotiana, etc., should be shown about the last week in March, in cold frame, with just enough manure to keep frost out. Sow them in a good rich soil, with a top mixture of sand, as this will keep the soil sweet and prevent the seedling from damping off during moist and cloudy weather. In this way the seedling, with a cool bottom, sown rather thin, can stay until time for planting arrives, without extra transplanting; that is, if the seed is sown too thick, it is well, or rather necessary to transplant into another bed in order to keep them dwarf and healthy.

Ricinus can be sown singly in small pots and transplanted as desired. Oxalis should be sown in flats, about the end of March or beginning of April, and transplanted as need be. Centaurea gymnocarpa and candidissima and Cineraria maritima, should be sown as early as December, on account of their slow growth. As soon as they are up, transplant and keep in a cool house if possible, on a shelf near the glass. About February, plant into small pots, and as soon as possible transfer to the hot-bed.

Begonia Vernon is also best grown from seed. Sow in flats about February, and transplant as soon as possible and keep in warm house. It is rather tedious to first transplant begonias on account of their smallness, but the sooner this is done, the better is for the seedling. When large enough, plant in small pots.

Alternanthera it is best to overwinter in old plants; about March, pull them apart and plant on warm bottom in hot-bed, and as soon as the young growth starts, cutting can be had in abundance. These can be stuck in a sandy hot-bed where they will grow freely and also can be easily used for bedding right out of the frame.

Geraniums are best propagated in fall or during winter, so as to get plants of proper size. Coleus should be kept in a rather warm house during winter; about the beginning of April, cuttings can be made. With a little bottom heat, they will root freely and will make about the right sized plants for bedding.

Sedum and mesembryanthemum can be made at any time during winter. Echeveria should be taken up in fall and whatever young plants there are, should be taken off and planted in flats. Keep them in a dry, cool place during winter and increase watering as the season advances. Stevia, lantana, gnaphalium, cuphea, ageratum, salvia, heliotrope, etc., can be propagated at any time after February. Canna bulbs should be kept in a dry, cool place. About March the bulbs can be divided and laid in sand; when rooted, plant in pots ready for planting. Dahlias are treated about alike, only need not be started as early. Caladium esculentum bulbs are kept best in sand in a warm house and started about April.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

HERACLEUM MANTEGAZZIANUM.

(Translated from Moller's Deutsche Gartner Zeitung, by G. Bleicken.)

In *Heracleum Mantegazzianum* we possess a biennial foliage plant, which is perhaps the best and the largest of its kind. It comes from the Caucasus and is best used as a solitary plant upon a lawn in a half-shady place in which location it will also thrive best.

If *heracleum* is planted as a one-year-old seedling it attains a height of fully two feet, its foliage appearing nicely serrated and with a dark metallic gloss. In ornamental effect the plant may be compared to a large *acanthus*.

In the second year this plant will reach maturity and attain a height of about ten feet, measuring in circumference about eight feet. It should bear a flower stalk with twenty or more cream-colored flower clusters.

(The original of the photograph shown in Moller's D. Gt. Ztg. had, it is stated, twenty-four such clusters, each a foot in diameter.)

Heracleum Mantegazzianum, like all of its class, dies down slowly after flowering at the end of August; this may be one objection to its general culture, but may be a little averted, if the flower stalk after the wilting of the clusters is cut off.

PITTSBURG NOTES.

The display of spring flowering plants at the Phipps Conservatories continues to attract large crowds daily. On Sunday, April 21, 25,000 people visited the greenhouses. The cool weather since Easter has been favorable to the flowering plants. Many plants have been kept in reserve, and although the display is not quite so good as on Easter Sunday, the greenhouses are well worth a visit.

At the Lauchlan place many alterations and improvements are being carried out. A large cave for wintering bay trees, hydrangeas, etc., is being built. Some fine specimens of dwarfed Japanese evergreen trees supposed to be 150 years old have just been received. The palm house, besides some fine specimens of palms, contains a choice assortment of tropical plants. There is also a large plant of *Philodendron pertusum* (bread fruit tree) in fruit. Mr. Price, the head gardener, is an orchid enthusiast, and has some good things in the orchid line. The greatest treasure is a plant of *Laelia lobata* in a 30-inch pan. This plant, which is probably the largest *Laelia lobata* in this country, has about fifty leads, each of which is showing a flowering sheath. Last year the plant had over eighty flowers. At the Barnsdale place, one of the finest places in the neighborhood for shrubs and hardy plants, Mr. Lily is making extensive alterations and planting hardy flowering shrubs. Large groups of hybrid rhododendrons have wintered well. J. H.

FOR SALE

Specimen *LATANIA BORBONICA*, in twenty-nine (29) inch cypress boxes, having from nine (9) to eleven (11) leaves a foot with about ten foot spread. Also smaller plants in seventeen (17) inch cypress boxes, having nine leaves and a spread of about six to seven feet.

JOHN RALPH, Florist, Saratoga Springs, N. Y.

CLEARANCE SALE Before moving, May 1.
GLOXINIAS

Extra Large Bulbs. In Named Sorts or Separate Colors.

White, Red, Violet, Purple, Spotted, Red with White Border, Blue with White Border.

Per 12, 40c.; per 100, \$2.75
All colors mixed, per 12, 30c.; per 100, \$2.00

Just arrived from Brazil.

Rarest Fancy Leaved CALADIUMS

No one not acquainted with these can appreciate their beauty and magnificence of coloring.

Foliage is dazzling rose, copper color, white with black veins, pink with carmine—all colors of rainbow. Grand for table decoration, etc. Named sorts, 40c. each; \$4.00 per 12; \$30.00 per 100.

H. H. BERGER & CO., 47 Barclay Street
New York
Address after May 1, 70 Warren Street

—ORCHIDS—

Some of the varieties we shall import this spring: *Cattleyas* Trianae, Labiata, Mossiae, Mendellii, Speciosissima, Gigas, Schroderae; *Dendrobiums* Notile, Wardianum, Phalaenopsis; *Vandas* Cerulea, Kimballiana; *Oncidium* Varicosum; *Laelias* Anceps, Autumnalis, Albida. Write for prices on above.

CARRILLO & BALDWIN, SECAUCUS, N. J.

ORCHIDS Importations, 1907

Save money and get our quotations on *Cattleya labiata*, *Trianae*, *Percivaliana*, *Mossiae*, *Mendellii*, *Schroderae*.

JULIUS ROEHRS CO.

Largest Orchid growers and importers in U. S.
RUTHERFORD, N. J.

Orchids for Spring Delivery

Cattleyas, *Laelias*, *Oncidiums*, etc.

Write for price list. Finest quality of Peat and Moss and Orchid Baskets on the market.

Give me a trial order.

Joseph A. Manda

191 Valley Road, West Orange, N. J.

ORCHIDS

Arrived in fine condition a large shipment of

Cattleya labiata, *Dendrobium Wardianum* and *Oncidium luridum*.

Write for Prices

LAGER & HURRELL, SUMMIT, N. J.

ORCHIDS NOW READY FOR IMMEDIATE DELIVERY

Cattleya Trianae, *C. Trianae*, var. *Papayan*, *C. Schroderae*, *C. Sanderiana*. To arrive, *Cattleya gigas*, *C. Aurea*, *C. Mendellii*. Call for quotations from us also for choicest varieties of *Odontoglossum*, *Piluma*, *Cypripedium*, *Phalaenopsis*, *Dendrobium* and *Vanda*. Extremely rare *Vanda sanderiana* for July delivery. A. HELD, 11-19 William St., NEW YORK

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

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WHITMANI

2 1-4 inch, \$10 per 100

BOSTONS

2 1-4 inch, \$3.00 per 100

H. H. BARROWS & SON Whitman, Mass.

SEASONABLE STOCK

In A No. 1 Condition

From 2 in. Pots 100 1000

Hardy Chrysanthemums, Large-flow- ering or Aster.....	\$3.00	\$25.00
Hardy Chrysanthemums, Small-flow- ering or Button.....	2.00	18.00
Geraniums, Standards and Novelties.....	2.00	18.00
Alternantheras, 6 varieties, strong.....	2.00	18.00
Lemon Verbenas, (Aloysia citrodora).....	2.00	18.00
Verbenas, white, scarlet, purple and striped.....	2.00	17.50
Petunias, Dreer's Single.....	2.00	17.50
" Double, fringed.....	3.00	25.00
Salvias.....	2.00	17.50

And other Bedding Stock. Send for List.

Cash with Order, Please.

R. VINCENT JR. & SON

Growers of Plants for the Trade. WHITE MARSH, MD.

GERANIUMS

Our selection \$18.00 per 1000, composed of the following varieties all to name: S. A. Nutt, Poitevine, La Favorite, Perkins, Breit, Viaud, Castellane, Doyle and several others out of 2 1-4 in. pot, with or without soil.

2 1-4 in pot	per 100	Rooted Cuttings	per 100
Fuchsias in variety.....	\$3.00	\$1.00	
Heliotrope.....	2.50	1.00	
Sweet Alyssum.....	2.00	1.00	
Lobelia.....	2.00	1.00	
Ageratum.....	1.50	.50	
Rose Geranium.....	2.00	fine plants	
Coleus in variety.....		.60	
Coleus Golden Bedder.....		.60	

Cash must accompany order.

J. E. FELTHOUSEN

154 Van Vranken Av., SCHENECTADY, N. Y.

BEDDING PLANTS

Of Every Description

Also a fine lot of Palms in all sizes, such as Kentias, Arcas, Latanias, Phoenix and Cocos. Pandanus Veitchii and utilis, Crotons, Dracaenas, Nepenthes, Aralias, Araucarias, Aspidistras, Ferns suitable for dishes, in leading varieties. Cibotium Schiedel from \$1.00 to \$3.00 each.

Will book contracts for Azaleas for future delivery.
Wholesale Price List on application.

A. LEUTHY & CO.,

Importers and Exporters, Growers and Dealers,
Perkins St. Nurseries, Roslindale,
BOSTON, MASS.

SPRING BEDDING PLANTS

	Per 100
Petunia, California, Single.....	2.50
Verbena, finest mixed.....	2.50
From flats once transplanted.....	1.50

Cash with Order, Please

R. L. GOINSALVOS, Waltham, Mass.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

EAST BRIDGEWATER DAHLIA GARDENS

has a Large Stock On Hand Yet.
Send for Prices.

J. K. Alexander, East Bridgewater, Mass.**DAHLIAS.**

Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc.
ATCO, N. J.

PRICES QUOTED IN THESE COLUMNS ARE FOR DEALERS ONLY**DREERS****SEASONABLE SPECIALS**

RHODODENDRONS—A grand lot of well budded plants of perfectly hardy varieties.

16 to 18 inches high, 73 cts. each;	\$8.00 per dozen;	\$65.00 per 100
20 to 24 " " " \$1.25 " "	12.50 " "	100.00 " 100

BOXWOOD EDGING—Very heavy bushy stock, 5 to 6 inches high, the finest we have ever handled, \$5.00 per 100; \$45.00 per 1000; special prices for large quantities.

HYDRANGEA PANICULATA GRANDIFLORA—Extra heavy bushy plants, 24 to 30 inches high, \$1.25 per dozen; \$10.00 per 100.

CLEMATIS PANICULATA—Extra heavy two year old roots, \$1.25 per dozen; \$8.00 per 100; \$70.00 per 1000. Strong one year old roots 75 cts. per dozen; \$5.00 per 100; \$40.00 per 1000.

CLEMATIS, Large Flowered Hybrid Varieties, such as Jackmani, Henryi, Duchess of Edinburgh, etc., in extra heavy two year old stock, \$3.00 per dozen; \$20.00 per 100.

AMPELOPSIS VEITCHII—Strong two year old plants \$1.50 per dozen; \$10.00 per 100; three year old plants \$2.00 per dozen; \$15 per 100.

HARDY ENGLISH IVIES—Strong plants in four inch pots, about 3 feet high, \$1.25 per dozen; \$10.00 per 100.

HARDY PERENNIAL PHLOX—All the popular standard varieties in strong one year old field grown plants, now in three inch pots, far superior to winter propagated stock as usually sent out. 75 cts. per dozen; \$5.00 per 100; \$40.00 per 1000.

HARDY PERENNIALS—The greatest assortment and largest stock in the country; write to us for anything you require in this line.

STRONG TWO YEAR OLD ROSES—We make a specialty of strong two year old Roses, field grown stock, which during the winter months has been potted up into 5 and 6 inch pots, stored in cold houses and is now breaking into growth nicely, just the kind of stock to sell to your retail customers for immediate planting.

For a complete list of seasonable stock
see our current Quarterly Wholesale List

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

The above prices are only for Florists or those engaged in the trade.

JAPANESE LILIES, IRIS, PÆONIES

We have a small surplus of

Iris Kuempferi, cases of 50 strong clumps of 50 best varieties. \$6.00 a case.

Herbaceous Paeonies, cases of 84 strong clumps of the 12 best Japanese varieties, 7 clumps each variety. \$15.00 a case.

The YOKOHAMA NURSERY CO., Ltd., 31 Barclay St., N. Y.**Gold Storage Valley**

FOR DECORATION DAY

Our "Excelenta" Valley is the finest and best for quick forcing. Order to-day.

Cases of 500 pips \$7.50 Cases of 2000 pips \$28
Cases of 2500 pips \$35

JOHN SCHEEPERS & CO. 4 and 6 Old Ship NEW YORK CITY**Giant Pansy Plants**

Strong, Bushy, Transplanted. Fine, healthy stock. \$9 per 1000. Cash with order.

WM. DOBBERTIN

595 Joseph Ave. ROCHESTER, N. Y.

ASPARAGUS

Plumosus, Robustus and Sprengerii

Three inch stock ready for forcing. Send ten cents for samples and prices.

ALBERT M. HERR, Lancaster, Pa.**"SARATOGA," the New Strawberry**

Introduced this season: with a record of 5.915 quarts per acre at one picking in 1906, under the same culture given entire field of many varieties by the originator. Fully described in catalogue, with many new and all the best standard varieties. Write for catalogue today and buy your plants of a specialist.

GEO. R. SCHAUBER, Box 4, Ballston Lake, N. Y.

When Writing to Advertisers
Please Mention Horticulture

Memorial Day in Four Weeks

We are all ready with the biggest and most desirable stock ever offered in this country.

Immortelle and Cycas Wreaths, Metal and Porcelaine Designs, Inscriptions, Letters, Emblems, Bouquet Holders, Doves, Cape Flowers, Sheaves, Fibre Ribbon, Waterproof Crepe Paper, Vases, Tone Ware, Tin Foil, Wire Frames, Etc.

All the above and many others. Just what you want. Order early and let people see you have them. Catalogue for the asking

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia, Pa.

The Florists' Supply House of America

ROSES

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**CARNATIONS
VALLEY**

AND ALL OTHER CHOICE FLOWERS

In our **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition to our regular wholesale **EVERGREENS** and **FLORISTS' SUPPLIES**

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. **Boston, Mass.**
and 9 Chapman Place,

See our Greens Advertisement on page 571.

L. D. Telephone, Main 2618.

FRUIT PROSPECTS IN WASHINGTON STATE.

While the fruit growers in Washington received more than \$12,500,000 for their tree, shrub and vine products in 1906, reports received by F. M. Huntley, State horticultural commissioner, indicate that the crop this year will break all records by large increases; in fact, he places it at 50 per cent. larger than in 1906.

"Frosts and cold snaps, so injurious to delicate trees, were not known," he says, "and on that account the spring indications are for a full crop. The apple season was off last year, and unless unforeseen weather conditions occur late in the spring, apple trees, meager of fruit last year, will yield a bumper crop this season. The crop of fruit of all kinds grown this season will be considerably augmented by the yield of a large number of trees that will now begin to bear. According to figures submitted, 10 to 15 per cent. of new trees will yield a harvest this year.

"No one district is making a more rapid advance than another, and all irrigated districts are keeping pace with each other. Trees have been received in the State all winter, and more will be set out this year than ever before. Many of the old districts have been pretty well planted, but as fast as one section becomes an orchard another springs up to take its place, and there is continual improvement as far as horticultural conditions are concerned."

FIRE RECORD.

Albert Davis of Alliance, O., lost one of his greenhouses by fire on April 1. Three hundred dollars is the loss reported, with no insurance.

THE MOTH CAMPAIGN IN RHODE ISLAND.

The College is in receipt of a large number of specimens of insect cocoons from various parts of the State with a query as to whether they are not either the gypsy or the brown-tail moth. A large majority of the cocoons have been those of the *Prometha* moth, *Callosamia prometha*, an insect which has been with us for years but which is seldom materially injurious.

The cocoon is invariably formed in a folded leaf, the edges of which, together with the petiole and the twig to which it is attached are strongly bound with silk. Inside of the leaf is a firmly woven cocoon which holds the pupa or resting stage of the insect. The leaf may sometimes wear away during the winter but its presence at the time of formation will still be suggested by the form of the structure.

It is to be hoped that the people of the State will continue to send in all suspicious insects, for only in this way can we hope to keep track of, and possibly also prevent the spread of notably injurious ones, and especially the gypsy and brown-tail moths.

Insects when sent in will gladly be identified whether injurious or not.—*Extension Department R. I. Col. of Agr. & Mech. Arts, Kingston, R. I.*

INCORPORATED.

Mt. Hope Floral Co., Brewer, Me.; president, Helen M. Tolman; treasurer, A. C. Blake; capital, \$10,000.

Abilene Nursery Co., Abilene, Texas; capital, \$10,000; W. F. D. Battjar, W. A. Minter, Jr., J. V. Cockrell, incorporators.

PHILADELPHIA NOTES.

We regret to report that our brave bowlers got the worst of it again in a three-cornered match with Washington and Baltimore on the Casino Alleys, this city, on the 19th inst. The concluding match will be held in Baltimore.

Edwin Lonsdale will move his residence from Wyndmoor to West Philadelphia in the near future.

It is reported that W. C. Smith has been offered \$135,000 for his property at 61st and Market streets, and is very much tempted to accept and go to growing plants in some less expensive locality.

C. MacKubbin of Dreer's has moved his residence from Morton, Delaware Co., to Germantown.

August Fredericksdorp makes a specialty of sweet peas, lupins and snapdragons, and returns the past season have been unexpectedly satisfactory.

OBITUARY.

Franz Kjellman, professor of botany at Upsala University, Sweden, died on April 22.

Edward W. Fenn of Terryville, Ct., died on April 14. He leaves a widow and one son.

Edward Tonquest, who about a year ago left Kansas City, Mo., for Colorado in search of health, died in Canon City, Colo., on April 7.

W. Louis Kidwell, aged 18, son of Wm. H. Kidwell of Chicago, died on April 16. He had returned to his home from New Mexico but a few days previous, having gone there to recover his health.

NEWS NOTES.

It is estimated that \$500,000 damage has been done to fruit trees in the Arkansas valley by the snow storm of April 17.

A. J. Stahelin of Sand Hill, Mich., will this year start to grow violets. Detroit hopes he may be successful as a local violet supply is needed. Fred Pautke of Grosse Point will erect one house 10x200 ft., also for violets.

The 200th anniversary of the birth of Linnæus occurs on May 23 of this year. Celebrations commemorative of the work of the great botanist will be held in Upsala, Sweden, and many other places throughout the world.

The grounds about the William McKinley Memorial at the State Capitol, at Columbus, Ohio, are being beautified by a liberal planting of trees and shrubs. Messrs. C. Y. Heikes & Co., of Troy, Ohio, secured this contract.

James Taylor of Mt. Clemens, Mich., is moving his old residence nearer to the greenhouses to be used as an office to be connected with the greenhouse plant proper, with another greenhouse to be used for a general line of plants.

It is reported that the license or tax imposed by the Province of Quebec and by British Columbia on non-resident commercial travellers representing firms or corporations having no place of business in the dominions, has been repealed, except in the cases of representatives of liquor and cigar firms. Prince Edward Island, however, retains the fee of \$20.

Eight hundred cars of fruit, according to experienced orchardists, will be shipped out of Lewiston, Idaho, this season, a yield unprecedented in this section. Seven hundred cars of this amount will be peaches, while the remaining hundred cars will be divided among the famous Vineland cherries, apricots, apples and smaller fruits. Much of this fruit has already been sold in advance by the growers, and the only difficulty now confronting them since the chance of a hurtful frost is past, is the fact that pickers are scarce.

PERSONAL.

The many friends of James Murray, gardener on the Henry Clews estate, Newport, R. I., will learn with regret of his serious illness in the hospital.

Visitors in Boston: Harry A. Bunyard of Arthur T. Boddington, New York; U. G. Scollay, Brooklyn, N. Y.; Walter Mott representing Bobbink & Atkins, Rutherford, N. J.; E. J. Faneourt, representing Pennock-Meehan Co., Philadelphia, Pa.; C. B. Knickman, representing McHutchison & Co., New York; Wm. Tricker, Lyndonville, Vt.; Geo. C. Watson, Philadelphia, Pa.; H. S. De Forest, New York.

JACOB SCHULZ, 644 Fourth Ave., Louisville, Ky.
Cut Flowers of BEST QUALITY in season delivered promptly to any address.
Write, Telegraph or Telephone.
Cumberland and Home Phones 223 and 984.

BOSTON FLORIST LETTER CO.
Manufacturers of FLORISTS' LETTERS

This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/4 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

**JOHN BREITMEYER'S
SONS**

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**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada

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Florist**

Coates House Conservatory
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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO April 15	TWIN CITIES April 23	PHILA. April 22	BOSTON April 25
ROSES				
Am. Beauty, Fan. & Sp.	35.00 to 40.00	25.00 to 30.00	25.00 to 30.00	20.00 to 25.00
" Extra.....	20.00 to 25.00	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00
" No. 1.....	12.00 to 15.00	15.00 to 18.00	12.00 to 15.00	8.00 to 10.00
" Lower grades.....	6.00 to 8.00	6.00 to 12.00	4.00 to 8.00	2.00 to 6.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	6.00 to 8.00	8.00 to 10.00	6.00 to 8.00
" " Extra.....	4.00 to 5.00	4.00 to 5.00	5.00 to 6.00	3.00 to 4.00
" " No. 1 & lw. gr.	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00	1.00 to 2.00
Liberty, Richmond, Fan. & Sp.	3.00 to 4.00	6.00 to 8.00	10.00 to 15.00	8.00 to 12.00
" Lower grades.....	3.00 to 4.00	2.00 to 4.00	4.00 to 8.00	2.00 to 6.00
Chatenay, Morgan, Fan. & Sp.	8.00 to 10.00	5.00 to 6.00	8.00 to 10.00	4.00 to 6.00
" Lower grades.....	6.00 to 7.00	2.00 to 4.00	6.00 to 8.00	1.00 to 3.00
Killarney, Wellesley, Fan. & Sp.	8.00 to 10.00	6.00 to 8.00	8.00 to 10.00	6.00 to 8.00
" Lower grades.....	4.00 to 6.00	3.00 to 5.00	3.00 to 5.00	1.00 to 4.00
CARNATIONS				
Fancy and Novelties.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Ordinary.....	1.00 to 2.00	1.50 to 2.00	1.50 to 2.50	1.00 to 1.50
MISCELLANEOUS				
Violets, Double.....	..... to .75	.50 to .75	..... to .....	.25 to .75
" Single.....	..... to .....	..... to .....	..... to .....	.25 to .75
Cattleys.....	50.00 to 75.00	50.00 to 75.00	50.00 to 60.00	35.00 to 50.00
Sweet Peas.....	.75 to 1.00	.50 to 1.00	.75 to 1.00	.50 to 1.00
Tulips, Daffodils.....	3.00 to 4.00	..... to 3.00	2.00 to 3.00	1.00 to 2.00
Lilies.....	10.00 to 15.00	12.50 to 15.00	8.00 to 10.00	6.00 to 8.00
Lily of the Valley.....	3.00 to 4.00	..... to 3.00	2.00 to 4.00	.50 to 3.00
Gardenias.....	50.00 to 60.00	5.00 to 7.50	15.00 to 20.00	10.00 to 25.00
Mignonette.....	4.00 to 8.00	..... to	2.00 to 4.00	1.00 to 2.00
Lilacs (100 bunches).....	25.00 to 50.00	..... to	50.00 to 75.00	50.00 to 75.00
Adiantum.....	1.00 to 1.50	1.00 to 2.00	1.50 to	1.00 to 1.50
Smilax.....	20.00 to 25.00	..... to 18.00	15.00 to 20.00	12.00 to 16.00
Asparagus Plumosus, strings.....	35.00 to 50.00 to 40.00	35.00 to 50.00 to 50.00
" & Spren. (100 bchs.)	35.00 to 50.00 to 30.00	35.00 to 50.00	35.00 to 50.00

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CUT FLOWER MARKET REPORTS

The general situation in **BOSTON** the flower market remains practically unchanged since last week. If anything, the supply is heavier, but there is no increased activity and prices hold as last reported. Roses are of excellent quality; in fact, they have never averaged better, and this is true of the product of all the growers. Carnations are also of fine grade and are selling well. Lily of the valley is still too abundant and goes slowly; the same is true of longiflorums. Dutch bulb stock shows some improvement. Violets are waning in number and importance; the best flowers are from frame culture.

Cold weather prevailed **BUFFALO** the past week and the supply was cut short. Business being brisk, a fairly good cleaning up was had. Carnations and roses were well in demand also sweet peas, lily of the valley and other stock. Beauties were in good supply and sold well, the short grades being preferred. Richmond, Killarney, Bridesmaid, Brides, Carnot are in finest quality and there seems little trouble to sell them. Lilies sold better than previous week also daffodils and tulip. Smilax and other greens not too plentiful.

Business is steadier **COLUMBUS** and better than for some weeks. This always is the case when stock ceases to be a glut. The supply of flowers of all kinds has shortened up. Carnations are in short supply. Some superb Richmond roses were noted. Violets seem to have awakened from their long slumber, as regards quality and sales; and now at the very end of the season are selling fast. As regards other stock, there is little or no change; bulb stock is about over. The closing of Green Lawn Cemetery to Sunday funerals has created various opinions amongst the craft; the vital question of course being the effect of such a radical change upon the demand for funeral flowers.

Supply and demand sure-
DETROIT ly played hide and seek last week, one day plenty of everything next day almost nothing. Considering the total sent in and how everything was promptly cleaned up proves a good run of business by all retailers.

Stock of all kinds **INDIANAPOLIS** has shortened up very much, this being especially noticeable in the case of carnations, most of the growers being off crop. In roses the market is fairly well supplied with all varieties. Beauties of unusual quality are seen. Some fancy lily of the valley is noted which finds good sale. The assortment of smaller and more springlike flowers is large and varied and much in demand. Every one is looking forward to the largest spring plant trade on record. A glance at the different greenhouses finds an enormous supply of all kinds of bedding stuff for the market. Tomlinson Hall market is making a good display in all lines, with trade only fair.

Present conditions
NEW YORK favor the grower inasmuch as there is not much surplus of anything. Small roses are more plentiful than other stock but prices hold at a fair level. American Beauties are in lighter supply for the past week and have appreciated in price, except for the defective flowers, of which there are a considerable number. Carnations are selling at satisfactory prices and no surplus. There are few cattleyas in the market. Lilies, tulips, lily of the valley and sweet peas are moving easier than for some time past. Green stock is sufficiently plentiful to meet all demands at no advance in figures.

The healthier tone
PHILADELPHIA noted in the Philadelphia market last week continued the present week with perhaps a little added snap. This is especially true of carnations the supply of which was inadequate and prices stiffened up considerably. American Beauty roses were plentiful and very good but no material improvement in prices. Other roses remain normal as to quality and price, the only noticeable change being a large increase in the short-stemmed grades. Double violets are very good for the season, the cool April weather having favored them and the demand is excellent. Lily of the valley continues of fine quality. Sweet peas have shortened up some and are good sellers. Cattleya Mossiae is the latest arrival in the orchid line; very choice. Plenty of gardenias with demand only fair. Oceans of callas and Easter lilies; much more than the market will absorb. The Barr daffodils (Barri Conspicuous) from the south have been quite conspicuous both in store and street the past week. The red-rimmed cup of this variety is very taking.

Trade with practi-
TWIN CITIES cally all of the dealers has been very good. Stock has been plentiful; in fact, Saturday the market was practically glutted and roses in particular suffered to a large extent. About every florist in the city had a special sale, at which roses were offered at 50c. per dozen. The supply of carnations would not permit any reduction as they are apparently scarce at the present. Plants have not begun to move as yet on account of the cold weather but the coming week undoubtedly will bring a change. Inquiries for plants for Decoration Day from outside towns are coming in lively and from present indications the demand will be brisk.

The few bright
WASHINGTON days of last week proved of some little help to the grower, but we are again in the midst of a damp, cold spell. Carnations are exceedingly scarce and prices keep up in consequence. The violet season is virtually over, though there are still a few good ones shown, due to the continued cool weather. Roses are of good quality, but Richmond takes the lead of everything, even leaving American Beauty in the background. Bulbous stock is quite scarce, but spireas, apple blossoms and other outdoor sub-

jects are in time to fill the gap, and are of unusually good quality. The numerous affairs of the past week kept the retail trade busy. The fruit does not seem to have succumbed to the cold snap, but nothing definite can be said of it yet. Should the fruit be in proportion to the bloom, there will be a plenty and to spare.

NEWPORT NOTES.

Among those who visited Newport last week were J. K. M. L. Farquhar of Boston and Joseph Leikens, New York. Mr. Farquhar's visit was a short one, but Mr. Leikens prolonged his stay in town to make arrangements for the opening of his store before Memorial Day. He reports a very good season in New York up to the week before last. It seems strange now to have no florist on Bellevue Ave., and stranger still to miss the familiar window display of the Fadden store. It is understood that Mr. Hurn will enter the employment of Wadley & Smythe in the capacity of superintendent of landscape work.

Newport dahlia growers are nearly through propagating from green cuttings of which a great number have been rooted by them. The growers, of whom there are several who ventured into the commercial ranks this spring, have already done fairly well with promise of a better rating by the end of the season.

It looks now as if the season for bedding out would be unusually late in beginning this year which will cause a great rush towards last part of it to obtain and plant what will be needed. D. M.

BUSINESS CHANGES.

O. J. Sawyer has purchased the business of G. W. Foster, Allentown, Pa.

Alex. Dallas of Waterbury, Ct., has moved his florist store into the Buckingham Building.

Hennessey Bros. of Joplin, Mo., have disposed of their greenhouses to W. E. Poundstone.

John J. Kruchten will hereafter continue the business of Kruchten & Johnson, Chicago, Olaf Johnson having withdrawn from the concern.

J. W. Gilliam has bought a half interest in the fruit orchard of H. Beck at Woodbury, Texas, and a nursery and florist business will be added.

NEWS NOTES.

Robert McMillen has opened a flower store on Arch street, Greenwich, Conn.

Dale Bros. expect to open a new establishment in Calumet, Mich., at an early date.

Wm. Schumacher, formerly designer and decorator in Miss Carlson's Chicago store, is now in charge of her place at Morton Hill.

The G. H. Hoskins Co., which has been formed recently and is located at 37 N. 10th street, Reading, Pa., has been awarded the contract to plant the grounds connected with the city water department.

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WHOLESALE FLORIST
 Finest American Beauties and
 Carnations
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Cut Flowers on Commission
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 Open 6 a. m. Daily

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**106 W. 28 St.
 NEW YORK**
**TELEPHONE 167
 MADISON SQ.**

Long Established and Well Recommended

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Apr. 20 1907	First Half of Week beginning Apr. 22 1907		Last Half of Week ending Apr. 20 1907	First Half of Week beginning Apr. 22 1907
Roses			Carnations, Ordinary	1.00 to 2.00	1.50 to 3.00
Am. Beauty, fan and sp.	12.00 to 20.00	10.00 to 20.00	Violets, double .....	.40 to .50	.50 to .75
" extra	8.00 to 12.00	8.00 to 10.00	" single .....	..... to .....	..... to
" No. 1	5.00 to 8.00	5.00 to 8.00	Cattleyas	50.00 to 75.00	50.00 to 75.00
" Lower grades	1.00 to 3.00	1.00 to 3.00	Sweet Peas .....	.50 to 1.00	.50 to 1.00
Bride, 'Maid, Golden Gate, fan & sp	5.00 to 8.00	5.00 to 8.00	Tulips, Daffodils	1.50 to 4.00	2.00 to 3.00
" " Extra	3.00 to 5.00	3.00 to 5.00	Lilies	3.00 to 4.00	5.00 to 8.00
" " No. 1 & lw. gr.	1.00 to 2.00	1.50 to 3.00	Lily of the Valley	1.50 to 3.00	1.00 to 3.00
Liberty, Richmond, fancy & special	8.00 to 12.00	8.00 to 12.00	Gardenias	2.00 to 15.00	2.00 to 25.00
" lower grades ..	1.00 to 6.00	2.00 to 6.00	Mignonette	1.00 to 3.00	1.00 to 3.00
Chatenay, Morgan, fancy and spec.	5.00 to 6.00	4.00 to 6.00	Lilacs (too bunches)	50.00 to 100.00	50.00 to 100.00
" lower grades ..	1.00 to 2.00	1.50 to 3.00	Adiantum .....	.75 to 1.00	.50 to 1.00
Killarney, Wellesley, fan, and spec.	6.00 to 10.00	5.00 to 8.00	Smilax	15.00 to 20.00	15.00 to 20.00
" lower grades ..	2.00 to 4.00	1.50 to 4.00	Asparagus Plumosus, strings ..	20.00 to 35.00	20.00 to 35.00
Carnations, Fancy and Novelties ..	3.00 to 4.00	4.00 to 6.00	" & Spreu. (too bchs.)	15.00 to 30.00	15.00 to 25.00

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WM. STUART ALLEN CO.
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53 WEST 28TH STREET, NEW YORK
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EXTRA FINE FANCY and DAGGER FERNS \$2.50 per 1000

DISCOUNT ON LARGER ORDERS

GREEN and BRONZE GALAX, \$1.25 per 1000, LEUCOTHOE SPRAYS, \$1.00 per 100, \$7.50 per 1000
\$7.50 Case of 10,000

Let us have your standing order for Fern.

BOXWOOD 20c lb., 50 lbs. \$8.50

Wholesale Florists
38-40 BROADWAY, DETROIT, MICH.

Formerly Miami Avenue

Michigan Cut Flower Exchange Incorporated

Send for Our Weekly Price List on Cut Flowers

Headquarters in Western New York
FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.
BUFFALO, N. Y.

Give us a trial. We can please you.

Best Flowers

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N. F. MCCARTHY & CO.

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BOSTON, MASS.

SEND FOR PRICES

The Reliable Commission House
Richmond Roses and Rich Flowers
of all varieties

JOS. S. FENRICH

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Tel. 324-325 Madison Square

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ALFRED H. LANGJAHR

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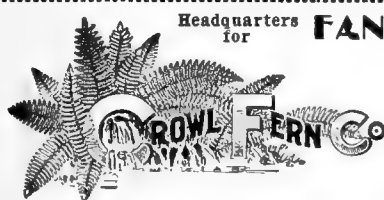
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We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties
and are dealers in

Glassware Decorative Greens and Florists' Requisites.

The Detroit Florist Club has completed arrangements for a stereopticon lecture on Garden Work and Civic Improvements to be given at Harmonic Hall free to the public. It is a wise move for any florists' club to arouse the public to a more general appreciation of the possibilities of house gardens.



Headquarters for

FANCY and DAGGER FERNS

SELECTED STOCK

Fancy, \$1.75 per 1000; Daggers, \$1.50 per 1000.
Laurel Festooning, best made, 4c, 5c and 6c per yard; once used, always used. Laurel Wreaths, \$3.00 per doz.; cheaper grades if wanted. Southern Smilax, fancy stock, 50-lb. case, \$5.50. Branch Laurel, 35¢ per bunch. Princess Pine, 7c per lb. Brilliant, Bronze or Green Galax, No. 1 stock, 75c per 1000, or \$6.50 per case of 10,000.

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Long distance telephone connections.

CROWL FERN CO., Millington, Mass.

NEW CROP BRONZE and GREEN GALAX

\$1.00 per 1000.

Case of 10,000, \$7.50.

Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER and FANCY FERNS.

(\$2.00 per 1000.



Best Southern Smilax, \$3.50 and \$7 per case.

Headquarters for all FLORISTS' SUPPLIES. Wire Designs,
Cut Wire, Letters, Immortelles, Cypas Leaves, Wheat
Sheaves, Ribbons, Corrugated Boxes, etc

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 15 Province St.,
9 Chapman Pl., Boston, Mass. L. D. Telephone, Main, 2617-2618.



WHOLESALE FLOWER MARKETS. — PER 100. — TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	April 22		April 23		April 23		April 23	
ROSES								
Am. Beauty, Fan, and Sp.....	25.00	to 30.00	25.00	to 30.00	25.00	to 30.00	20.00	to 25.00
“ Extra.....	20.00	to 25.00	15.00	to 20.00	20.00	to 25.00	12.50	to 15.00
“ No. 1.....	15.00	to 20.00	10.00	to 15.00	15.00	to 20.00	6.00	to 8.00
“ Lower grades.....	8.00	to 10.00	3.00	to 8.00	3.00	to 15.00	.....	to 4.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	6.00	to 8.00	8.00	to 10.00	8.00	to 10.00
“ “ “ Extra.....	5.00	to 6.00	5.00	to 6.00	6.00	to 8.00	5.00	to 6.00
“ “ “ No. 1 & lw. gr.	3.00	to 4.00	3.00	to 5.00	3.00	to 6.00	3.00	to 4.00
Liberty, Richmond, Fan, & Sp.....	6.00	to 8.00	4.00	to 6.00	8.00	to 10.00	10.00	to 12.00
“ Lower grades.....	3.00	to 4.00	3.00	to 4.00	3.00	to 8.00	4.00	to 6.00
Chatenay, Morgan, Fan, & Sp.....	6.00	to 8.00	4.00	to 6.00	8.00	to 10.00	10.00	to 12.00
“ Lower grades.....	3.00	to 4.00	3.00	to 4.00	4.00	to 8.00	4.00	to 6.00
Killamey, Wellesley, Fan, & Sp.....	6.00	to 8.00	4.00	to 6.00	8.00	to 10.00	10.00	to 12.00
“ Lower grades.....	4.00	to 5.00	3.00	to 5.00	5.00	to 8.00	4.00	to 6.00
CARNATIONS								
Fancy and Novelties.....	2.00	to 3.00	2.00	to 3.00	2.50	to 3.00	3.00	to 4.00
Ordinary.....	1.00	to 2.00	1.00	to 2.00	1.50	to 2.00	1.00	to 2.00
MISCELLANEOUS								
Violets, Double.....	.50	to .....	.75	to .....	.50	to .75	.....	to
“ Single.....	.50	to .....	.75	to .....	.....	to .....	.....	to
Cattleyas.....	.....	to	50.00	to .....	.....	to .....	.....	to
Sweet Peas.....	.75	to 1.00	.75	to 1.00	.75	to 1.00	.75	to 1.00
Tulips, Daffodils.....	.....	to 3.00	3.00	to 4.00	2.00	to 3.00	2.00	to 4.00
Lilies.....	10.00	to 12.00	15.00	to 20.00	8.00	to 12.00	8.00	to 12.50
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Gardenias.....	6.00	to 15.00	.....	to .....	.....	to .....	.....	to
Mignonette.....	1.00	to 3.00	6.00	to 10.00	2.00	to 3.00	2.00	to 4.00
Lilacs (100 bunches).....	.....	to .....	.....	to .....	.....	to .....	.....	to
Adiantum.....	.....	to 1.00	1.00	to 2.00	.50	to 1.00	1.00	to 1.25
Smilax.....	12.00	to 15.00	15.00	to 20.00	.....	to 20.00	20.00	to 25.00
Asparagus Plumosus, strings.....	40.00	to 50.00	20.00	to 30.00	40.00	to 50.00	25.00	to 50.00
“ “ & Spreng. (100 bchs.).....	to 25.00	20.00	to 30.00	25.00	to 50.00	20.00	to 25.00

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20 WEST 27th ST., N. Y.

WHOLESALE DEALERS

Fresh cut Palmetto & Cypas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 28 State St., Boston.
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ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

AGERATUMS

R. L. Goinvalos, Waltham, Mass.
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AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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ALTERNANTHERAS

Alternantheras, red and yellow, \$2 per 100. Jos. H. Cunningham, Delaware, Ohio.

AMPELOPSIS.

A. T. Boddington, 342 W. 14th St., New York.

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5,000 *Ampelopsis Veitchii*, pot grown. Dormant, long tops, \$4.00 per 100. English Ivy, 3 1-2 in., 3 to 5 ft., \$3.00 per 100. Cash. Benj. Connell, West Grove, Pa.

ARAUCARIAS

Peter Henderson & Co.,
35-37 Cortlandt St., New York.

A. Leuthy & Co., Roslindale, Mass.
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ASPARAGUS

Albert M. Herr, Lancaster, Pa.

Asparagus Robustus.
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Plumosus, 3-in., \$5.00 100; \$40.00 1000. Christ. Winterich, Cyclamen Specialist, Defiance, Ohio.

Asparagus plumosus nanus and *Sprengeri*, 2 1-2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asp. Plumosus and *Sprengeri*, 2 inch pots, \$2 per 100. Jos. H. Cunningham, Delaware, O.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 585 Ellicott St., Buffalo, N. Y.

Asparagus Crawshawii, a new, beautiful *asparagus*. Seedlings, \$3.00 per 100; \$25.00 1000; transplanted seedlings, \$5.00 100; \$40.00 1000. Jas. Crawshaw, 403 Plainfield St., Providence, R. I.

ASPARAGUS SEED

S. S. Pennock-Meehan Co., Philadelphia.
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C. Eisele,

11th and Roy Sts., Philadelphia, Pa.
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ASTERS.

Novae-Angliae Asters, strong, \$3.00 per 100; \$25.00 per 1000. Ellsworth Brown & Co., Seabrook, N. H.

AUCTION SALES

Bedding plants, trees, shrubs, conifers, bay trees, etc., every Tuesday and Friday. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

AZALEAS

John Scheepers & Co., 2-6 Old Slip, N. Y.
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A. Leuthy & Co., Roslindale, Mass.
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Azalea Amoena in large quantity, 25c., 50c., and \$1.00. Ask for trade list of choice hardy ornamental stock. Samuel C. Moon, Morrisville, Pa.

BAY TREES.

John Scheepers & Co.,
4 and 6 Old Slip, New York.

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Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

J. E. Felthousen, Schenectady, N. Y.
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C. Eisele, 11th and Roy Sts., Phila.
Spring Bedding Plants.

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R. Vincent, Jr., & Son, White Marsh, Md.
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Spring Bedding Plants in variety at auction every Tuesday and Friday during spring season. Purchases made on order. Mail your bid. N. F. McCarthy & Co., 84 Hawley St., Boston.

BEGONIAS

Wm. Elliott & Sons, 201 Fulton St., N. Y.
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Baur Floral Co., Erie, Pa.

Begonia Thurstonii.
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Begonia Gloire de Lorraine. Extra fine, 2 1-4 inch pot. Leaf cutting \$12 per 100; \$100 per 1000. Delivery May 1st. Julius Roehrs Co., Rutherford, N. J.

BOILERS

BOILERS. "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

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A. T. Boddington, 342 W. 14th St., N. Y.
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Richards Bros., 37 East 19th St., New York.
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H. F. Michell Co., Philadelphia.
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BULBS AND TUBERS—Continued.

Johnson Seed Co., 217 Market St., Phila.
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John Scheepers & Co., 4-6 Old Slip, N. Y.
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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

Amaryllis formosissima, 11-13 cm., \$2.00 per 100; \$18.00 per 1000. *Bessera elegans*, 7-9 cm., \$1.00 per 100; \$9.00 per 1000. *Pancratium*, spider lily, 12-15 cm., \$3.00 per 100; \$20.00 per 1000. *Tigridias*, mixed, 7-9 cm., \$2.00 per 100 \$12.00 per 1000. *Zephyranthes*, white, 7-9 cm., \$1.00 per 100; \$9.00 per 1000. Price includes carriage paid. J. A. McDowell, Ap. 167, City of Mexico.

CACTI

Old Man cactus, 4 to 5 inches high, \$3.00 per doz.; \$22.00 per 100. Carriage paid. J. A. McDowell, Ap. 167, City of Mexico.

CANNAS

The Conard & Jones Co., West Grove, Pa.
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Cannas, 1000 each, Allemania, Austria, Burbank, \$1.00 per 100. O. B. Stevens, Shenandoah, Iowa.

10,000 potted cannas, 20 best sorts, 4 to 6c.; Dormant, \$1.50 per 100. Benj. Connell, West Grove, Pa.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.

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S. S. Skidelsky, 824 N. 24th St., Phila.
Rose Pink Enchantress.

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Carnation Imperial and Pink Imperial.
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F. Dörner & Sons Co., Lafayette, Ind.
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N. Y. Cut Flower Co., 55-57 W. 28th St., New York. J. A. Millang, Mgr.

Carnation Winsor Blooms.
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Harlowarden Greenhouses, Greenport, N. Y.
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Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by glass.

CHRYSANTHEMUMS

Eggeling Floral Co., 1653 S Grand Ave., St. Louis, Mo.

Charles H. Totty, Madison, N. J.
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A. N. Pierson, Cromwell, Conn.
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Harlowarden Greenhouses, Greenport, New York.
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Rooted cuttings of October Frost and Fidelity Chrysanthemums. \$5.00 per 100. Frank Shearer & Son, Binghamton, N. Y.

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CHRYSANTHEMUMS—Continued.

Chrysanthemum stock plants. About 1,000 Jeanne Noun, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

Chrysanthemums. White—Timothy Eaton, Estelle, White and Yellow Bonaffon. Alice Byron, Ivory. Pink—Glory of Pacific, Dr. Enguehard, Maud Dean. Yellow—Col. Appleton, Mrs. Whilldin, Cremona, Robt. Halliday, Roi d'Italie. Rooted cuttings, \$2.00 per 100; \$15.00 per 1000. Cash with order. Wm. Swayne, Box 226, Kennett Square, Pa.

COLEUS

Coleus, \$2 per 100. Jos. H. Cunningham, Delaware, O.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Evergreens of large size from 6 to 16 feet in variety frequently transplanted. Ask for list. Samuel C. Moon, Morrisville, Pa.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

Giant Hybrids transpl., ready for 2-in. and 3-in., \$3.50 100; \$30.00 1000. Plants grown of seed taken from the cream of my well known strain. Christ. Winterich, Cyclamen Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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J. K. Alexander, E. Bridgewater, Mass.
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Harlowarden Greenhouses, Greenport, New York.
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H. E. Fiske Seed Co.,
Faneuil Hall Sq., Boston.

Dahlias, choice, 25 \$1; five pkts. vegetable or 16 flower seeds, 10 cents. Hyponoco, Westport, N. H.

Dahlias, fine, strong bulbs. Also cannas. Write for price list. O. B. Stevens, Shenandoah, Iowa.

Dahlias, 150 varieties, including many European novelties, 3c. and up. What have you to exchange for dahlias? New list free. Adams Supply Co., Lowell, Mass.

THE DAHLIA MANUAL.

An up-to-date work on dahlias and dahlia culture, covering the whole field. Illustrated. Price, 35c. W. W. WILMORE, Box 382, Denver, Colo.

We make them pay. So can you; the best for summer cutting—Kriemhilde, Catherine Duer, \$1.50 per doz., or \$10.00 per 100; Storm King, \$1.00 per doz.; \$8.00 per 100. Whole roots, field grown. W. C. Ward, Adams Street, Quincy, Mass.

DAHLIAS—Continued.

I am again ready to handle your business. Only the cream of varieties handled. Standards and novelties, including Mrs. Winters, Mme. Dael, Navajo, Lonsdale, Dainty, Kriemhilde, etc. Catalogue of dahlias, hollyhocks, peonies and hardy plants now ready. W. W. WILMORE, Box 382, Denver Colo.

DAISIES

Shasta Daisies. Burbank's named varieties, \$2.50 per 100, express prepaid. Leedham Bulb Co., Santa Cruz, Cal.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Peter Henderson & Co.,
35-37 Courtlandt St., New York.

Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

ECHEVERIAS

Echeverias, 15 to 20 cm. in cir., \$3.00 per 100; \$22.00 per 1000. Carriage paid. J. A. McDowell, Ap. 167, City of Mexico.

FERNS

Baur Floral Co., Erie, Pa.
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New Rochelle, N. Y.
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FICUS

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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-12 Bowery, New York.

FLORISTS' LETTERS.

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Decorative Evergreens.
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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Young & Nugent, 42 W. 23th St., N. Y.
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W. H. Donohoe, 2 W. 29th St., New York.

Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.
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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Ave and 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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FLOWER POTS

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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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Say! Send to Feustel, for prices on Red flower pots. Geo. E. Feustel, Fairport, Ia.

FRUIT PLANTS

Wilfrid Wheeler, Concord, Mass.

FUCHSIAS

Baur Floral Co., Erie, Pa.
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GALAX

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
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Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

GERANIUMS

R. Vincent, Jr., & Son, White Marsh, Md.
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J. E. Felthousen, Schenectady, N. Y.
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Wm. S. Herzog,
Morris Plains, N. J.
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C. Elsele,
11th and Roy Sts., Philadelphia, Pa.
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In writing to Advertisers kindly mention Horticulture

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

GLADIOLI. Groff's Hybrids, Gold Medal and Silver Trophy Strain, Crawford Strain. Farquhar Hybrid seedlings. JOHN H. UMPLEBY, Lake View, N. Y.

	Per	Per
	100	1000
5,000 Gladioli Florist Mix.....	.75	\$6.00
7,000 Montbretia Crocos, sin. fl'r. .	.60	5.00
4,600 Oxalis Shamrock.....	.40	3.00
3,500 Oxalis Purpurea.....	.40	3.00
Cash with order. Elmer Shute, R. F. D. 41, West Newbury, Mass.		

GLASS

Boston Plate & Window Glass Co., Boston.

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GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.

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GLAZING POINTS, Lord & Burnham Special Glaze Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GLOXINIAS

Wm. Elliott & Sons, 201 Fulton St., N. Y.

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GREENHOUSE BUILDING MATERIAL.

D. Iliffe, 49 Washington St. N., Boston.

Piping and Construction.

Lord & Burnham Co., 1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Sq., N. Y.

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Hitchings & Co., 1170 Broadway, N. Y.

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T. Stearns Lumber Co., Neponset, Boston.

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King Construction Co., N. Tonawanda, N. Y.

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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.

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S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.

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Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.

Weathered Co., Box 789, New York.

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Foley Mfg. Co., 471 W. 22nd St., Chicago.

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GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.

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GREENHOUSE BRACKETS

Buxton & Allard, Nashua, N. H.

Economy Greenhouse Bracket.

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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.

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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

HARDY FERNS AND SUPPLIES—Continued

The Kervan Co., 20 W. 27th St., New York.

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

Fancy Ferns.

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E. A. Beaven, Evergreen, Ala.

Fadeless Sheet Moss.

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HARDY ORCHIDS

H. P. Kelsey, Salem, Mass.

Cypripedium Reginae.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.

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Funkia variegata clumps, \$6.00 per 100. H. Pladeck, Elmhurst, N. Y.

Yucca Filamentosa, No. 1, 4c.; Iris Sibirica, 3c. Ellsworth Brown & Co., Seabrook, N. H.

Hemerocallis Thunbergii, 12 inch clumps, \$20 per 100.

Yucca filamentosa, strong plants with 50 leaves, \$20 per 100.

Hibiscus moscheutos, 3 yrs., \$4 per 100.

Yucca gloriosa, \$10 per 100. Ask for trade list of hardy nursery stock. Samuel C. Moon, Morrisville, Pa.

HARDY PLANTS

Vick & Hill Co., Rochester, N. Y.

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HEATING APPARATUS

Lord & Burnham Co.,

1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Sq., N. Y.

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Hitchings & Co., 1170 Broadway, N. Y.

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Kroeschell Bros., 35 Erie St., Chicago.

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Johnston Heating Co., 1133 Broadway, N. Y.

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W. W. Castle, 170 Summer St., Boston.

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HOLLYHOCKS

Hollyhocks. Large field-grown plants. \$3.00 per 100. Double in separate colors of red, white, pink, yellow and maroon; also the Allegheny strain. Send for catalogue of hollyhocks, dahlias and hardy plants. W. W. WILMORE, Box 382, Denver, Colo.

HONEYSUCKLES.

Golden Honeysuckles, 7c. Ellsworth Brown & Co., Seabrook, N. H.

HORSES

Useful work-horses for florists' spring work; also florists' delivery wagons, good as new. Edward Higgins, 1 West 28th St., New York.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.

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Pierson U-Bar Co., 1 Madison Sq., N. Y.

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Hitchings & Co., 1170 Broadway, N. Y.

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Lord & Burnham Co., 1133 Broadway, N. Y.

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HOT WATER CIRCULATOR

W. W. Castle, 170 Summer St., Boston.

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HYDRANGEAS.

Hydrangea paniculata grandiflora, 3 ft., 3c. Ellsworth Brown & Co., Seabrook, N. H.

INSECTICIDES.

Nicotide kills all greenhouse pests. P. R. Palethorpe Co.,

Eleventh St., Louisville, Ky.

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IRISES

Yokohama Nursery Co., 31 Barclay St., New York.

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JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.

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KENTIAS

A. Leuthy & Co., Roslindale, Mass.

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LAWN AND CEMETERY VASES

Kramer Bros. Foundry Co., Dayton, Ohio.

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Clipper Lawn Mower Co., Dixon, Ill.

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Thomas Young, Jr., New York.

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Fred C. Weber, 4326 Olive St., St. Louis, Mo.

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J. Breitmeyer's Sons, Detroit, Mich.

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George H. Cooke, Washington, D. C.

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Samuel Murray, 1017 Broadway,

Kansas City, Mo.

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Gude Bros. Co., 1214 F St.,

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Eyres, 11 N. Pearl St., Albany, N. Y.

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Young & Nugent, 42 W. 28th St., N. Y.

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Mills, the Florist, Jacksonville, Fla.

Telegraph or mail orders promptly filled. Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd.,

St. Louis, Mo.

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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.

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William J. Smyth, Michigan Ave. and 31st St., Chicago.

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Wm. H. Rock Flower Co., Kansas City, Mo.

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Park Floral Co., Denver, Colo.

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W. H. Donohoe, 2 W. 20th St., New York.

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Atlanta Floral Co., Atlanta, Ga.

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Jacob Schulz, 644 4th Ave., Louisville, Ky.

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LILY OF THE VALLEY

John Scheepers & Co., 4 and 6 Old Slip, New York.

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LIVISTONIAS

Livistonia Rotundifolia. Well leaved and clean, \$6, \$9, \$12 per doz. J. Roehrs Co., Rutherford, N. J.

LOBELIAS

NEW—NEW—NEW

LOBELIA KATHLEEN MALLARD Fine double flower; fine, strong 2 1/2-inch pot; \$5.00 per doz.

Quantity limited. Order at once.

J. Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.

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MOON VINES

Godfrey Aschmann, 1012 Ontario St., Phila.

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Nicotine Mfg. Co., St. Louis, Mo.
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NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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Specimen Nursery Stock.
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Oak Hill Nurseries, 114 Poplar St.,
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Berberis Thunbergii.
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Henry A. Dreer, Philadelphia.
Rhododendrons, Boxwood Edging, Hardy
Shrubs and Border Perennials.
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Continental Nurseries, Franklin, Mass.
Hardy Shrubs.

New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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Nursery Stock, N. F. McCarthy & Co.,
84 Hawley St., Boston, Mass.

Cut leaf Stagbourn sumach, large stock.
6c. to 15c.; Kudzu Vines, 15c. Edw. Tens.
Joplin, Mo.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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A. Held, 11-19 William St., New York.
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Selbrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.
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Jos. A. Manda, 191 Valley Road, W.
Orange, N. J.

Orchids, Orchid Baskets, Peat.
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Laelia anceps, \$4.00 per doz.; \$25.00 per
100. Carriage paid. J. A. McDowell, Ap.
167, City of Mexico.

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Peter Heiderson & Co.

35-37 Cortlandt St., New York.

John Scheepers & Co.

4 and 6 Old Slip, New York.

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PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse
Lead; Special Greenhouse Putty. Lord &
Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Wm. Dobberty, 595 Joseph Ave., Roches-
ter, N. Y.

Giant Pansy Plants.
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Pansy plants; strong transplanted, \$10.00
per 1000. F. A. Baller, Bloomington, Ill.

Large, strong transplanted Pansy Plants.
Dreer's Royal Exhibition and Vaughan's
International, \$1.00 per 100; \$7.50 per 1,000;
smaller transplanted, \$5.00 per 1,000. Send
for sample and price list of other plants.
Frank Shearer & Son, Binghamton, N. Y.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Johnson Seed Co., Philadelphia.
Double Chinese Sweet-Scented Peonies.
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Yokohama Nursery Co., 31 Barclay St.,
New York.
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Peonies, fine assortment, \$10.00 per 100.
F. A. Baller, Bloomington, Ill.

Peonies, 1200 sorts. Greatest list any
where. C. Betscher, Canal Dover, Ohio.

Wholesale grower of peonies. List of 100
varieties. J. F. Rosenfield, West Point,
Neb.

Peonies, 200 strong undivided five year
old clumps; pink sorts only, \$25 per 100.
Ask for trade list of ornamental nursery
stock. Samuel C. Moon, Morrisville, Pa.

PETUNIAS

The Yates Floral Co., Canajoharie, N. Y.
Double Petunia the Queen.

C. Elsele.
11th and Roy Sts., Philadelphia, Pa.
Howard's Star and Rosy Morn.
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Wm. S. Herzog.
Morris Plains, N. J.
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PLANT STANDS

The Wittbold plant stand, \$18.00 per doz.
The Geo. Wittbold Co., 1657 Buckingham
Place, Chicago.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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RAFFIA

Raffia, prime long fiber, sound and strong,
ten cents the pound, nine dollars the hun-
dred pounds; cash with order, please. A.
Rolker & Sons, New York. P. O. Box 759.

RHODODENDRONS

John Waterer & Sons, Ltd., American
Nursery, Bagshot, Eng.
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Hardy Roses, H. T. Roses and Ramblers.
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Grafted Bride and Bridesmaid Roses.
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XX Richmond Rose Plants.

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A. T. Boddington, 342 W. 14th St.,
New York.

Climbing Roses.

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Low-budded roses, No. 1, \$95.00; No.
1-1-2, \$65.00 1000. H. T. Jones, Elizabeth,
N. J.

American Beauties, 2 1-2 in., \$8.00 per
100; \$75.00 per 1000. Chas. H. Totty, Mad-
ison, N. J.

Own root roses, 2 years. C. Ramblers.
\$7.00; Dorothy Perkins, P. W. and Y. Ram-
blers, \$5.00; H. P. roses and Baby Ram-
blers, \$8.00 per 100. Gilbert Costich, Roch-
ester, N. Y.

Baby Rambler roses, fine dormant stock,
one year, \$12 per 100, 2 1-4 in. pot plants,
extra well rooted, \$4 per 100, \$30 per M.
Orders booked for delivery now or any
time up to late spring. Samples free.
Brown Brothers Company, Rochester, N. Y.

SALVIAS

C. Elsele.
11th and Roy Sts., Philadelphia, Pa.
Salvia Bonfire.

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Salvia splendens, 2 1-2 in., red achyran-
thes, 2 1-2 in., \$2.00 per 100, \$18.00 per
1000. S. W. Carey, Florist, Urbana, Ohio.

SCALECIDE

B. G. Pratt & Co., 11 Broadway, N. Y.

SEEDS

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Cauliflower and Cabbage Seed.

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Francisco, Calif.

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Plumose seed, \$2.50 per 100. Jos. H.
Cunningham, Delaware, O.

I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.

Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and
Tree Seeds.

Surplus Garden Peas—50 bc. Alaska,
\$3.25 per bu.; 40 bu. First and Best, \$2.00
per bu. New crop northern Michigan
grown; none better. W. F. Allen, Salis-
bury, Md.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Mar-
ket St., Boston.

Pulverized Sheep Manure.

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SHEET MOSS

E. A. Beaven, Evergreen, Ala.
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SHRUBS.

Japanese Wistarias, 8c.; Berberis Thun-
bergii, 12 to 18 in., 3 1-2c.; Hibiscus, C.
Eye and Pink, 3c.; Norway Spruce, 1 1-2
to 2 1-2 ft., 8c. Ellsworth Brown & Co.,
Scabrook, N. H.

1000 Large Shrubs 5 to 8 ft. assorted for
\$150. Ask for trade list of ornamental nur-
sery stock. Samuel C. Moon, Morrisville,
Pa.

SMALL FRUIT PLANTS

Dewberry plants, Lucretia and Austin,
\$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00
per 1000, \$25.00 per 5000; Turner red rasp-
berry plants, \$6.00 per 1000, \$25.00 per
5000. W. F. Allen, Salisbury, Md.

In writing to Advertisers kindly mention Horticulture

SMILAX

Smilax seedlings, fall-sown, \$3.00 per 1000. F. A. Baller, Bloomington, Ill.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

Spiraea, Van Houttii, 2 to 3 ft., 6c.; 18 to 24 in., 4c. Ellsworth Brown & Co., Seabrook, N. H.

STEAM TRAP

E. Hippard, Youngstown, O.
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STRAWBERRY PLANTS

Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

THERMOSTATS

Fire and Frost Alarm. Heat regulators. Brown Alarm Co., Denver, Colo.

TOMATO SEEDS

Wm. Sim, Cliftondale, Mass.
Comet Tomato.

VEGETABLE PLANTS

Wilfrid Wheeler, Concord, Mass.

50,000 small horseradish sets, 25c. per 100; \$2.50 per 1000. S. J. McMichael, 142 Larkin St., Findlay, O.

500 to 1000 2 1/2 in. Pot Plants, Tomato "The Comet." Strong and ready for shift \$3.50 per 100. Cohanze Carnation Green houses, New London, Conn.

50,000 large 4-year old Barrs Mammoth Asparagus roots, \$6.00 per 1000; \$25.00 per 5000. (500 will fill a sugar barrel.) Address W. F. Allen, Salisbury, Md.

Early cabbage, strong transplanted plants ready for the field. Early Jersey Wakefield, All Head Early and Succession. \$2.50 per 1,000. Send for our price list of Early Vegetable plants. Frank Shearer & Son, Market Gardeners, Binghamton, N. Y.

Now ready to ship, Jersey Wakefield, Winnigstadt, and Market Gardener's Early Cabbage, No. 1 stock, 15c. per 100, \$1.25 per 1000. Tomato plants, Dwarf Champion, Spark's Earliana, Lorillard King of the Earliest, 15c. per 100, \$1.25 per 1000. S. J. McMichael, 142 Larkins St., Findlay, O.

VENTILATING APPARATUS

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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VENTILATING MACHINERY, New Model encased, self-oiling gear; Standard Model Open Gear Pipe and Fittings, Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway N. Y.

VINCAS

10,000 vincas 2 1/2 in., fine, \$2.50 per 100; \$20.00 per 1000. R. Cuttings same, \$1.00 per 100; \$7.00 per 1000. Cash, please. Benj. Connell, West Grove, Pa.

VIOLETS

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WIREWORK

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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.
William E. Heilscher's Wire Works, 38 40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

All standard frames in stock. Special designs made to order in hurry-up time. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

WHOLESALE FLORISTS**Boston**

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GREENHOUSES BUILDING OR CON-TEMPLATED.

New.

Sandusky, O.—City greenhouse.
Duluth, Minn.—W. W. Seekins, one house.
Danbury, Ct.—J. E. Corneli, three houses, each 20x50.

Additions.

Denver, Colo.—Park Floral Co., one house.
Baltimore, Md.—J. M. Sommers, one house.

Auburn, Me.—C. Shackley, one house, 40 feet.
Lyndonville, Vt.—James Burns, range of houses

Rock Island, Ill.—Henry Gaethje, one house, 18x50.
Cumberland Centre, Me.—F. H. Chase, one house.

Northampton, Mass.—R. B. & A. B. Graves, extensions.

Des Plaines, Ill.—Frank Garland, two houses, each 40x150.
Grosse Pt. Farms, Mich.—Fred Pautke, one house, 10x200.

Albany, N. Y.—Frederick Goldring, three houses, each 120x150, one 40 ft. long.

Philadelphia, Pa.—Myers & Samtman, one house; George Burton, three houses.

Portland, Me.—F. H. Chase, 100 foot addition; Leighton Bros., one house 80 feet.

Wm. H. Lutton of Jersey City, has secured the contract for the erection of a large range of greenhouses for E. W. Fengar of Irvington, N. J., iron construction, heated by hot water, for \$35,000. He has also the contract for the erection of Wm. Gahrs' greenhouses at Newark, N. J.

Robert Klagge, of Mt. Clemens, Mich., is arranging to build a new boiler room.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HILL WANTED

HORTICULTURE needs a wide-awake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

WANTED—Working foreman for a commercial place who must be a first class plantsman, capable of growing a general line of decorative plants of first quality, also bedding plants. State age, qualifications and wages expected. Foreman, care HORTICULTURE, 11 Hamilton Place, Boston, Mass.

WANTED—Expert help in our Greenhouses where nothing but Cut Flowers are grown for a high class trade. Also a good Chrysanthemum grower and pot man. State salary and experience in first letter. Florist, 1035 Prospect Avenue, Cleveland, Ohio.

WANTED—Working foreman who understands carnations, mums, and general bedding plants. Must be honest and sober. Address R. L. Gonsalves, Waltham, Mass.

Young unmarried man for second man's position on small estate. Salary \$40. Apply in person at once to Olmsted Brothers, Brookline, Mass.

HILL WANTED

WANTED AT ONCE—A sober and energetic young man with knowledge of pruning, planting, etc., to assist in general landscape work. Apply in person or by mail with reference to A. Van Leenwen, Jr., 3 Westford Rd., Worcester, Mass.

WANTED—Single man as assistant rose grower on commercial place. Steady position to good man. Give reference from last place and state wages expected with board. Dean & Co., Little Silver, N. J.

WANTED—Good active young man, experienced in rose growing under glass. Good salary. Address B. care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATIONS WANTED

SITUATION WANTED—Either commercial or private. Sober, industrious, good experience and willing to work. Married, two children. Good references. Address R. R., care HORTICULTURE.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

HORTICULTURAL SITUATION WANTED—Long experience in orchids, palms and exotic plants; been 5 years in tropical country, understand gardening in general. Now at a well-known flower nursery of N. Y. State. Will give best of references in every detail. Private place preferred. Address D. A., Box 303, Ossining, N. Y.

SITUATION WANTED—As superintendent or manager of gentleman's large private estate; 20 years' practical experience in all branches; first-class landscape engineer and capable of designing and developing the outdoor features of any estate, large or small; first-class grower of fruit, vegetables, fancy cut flowers and ornamental plants; can manage stock and farm crops to good advantage; can save you money in buying; familiar with the development of new estates; total abstainer; no family; interviews can be arranged; all references. Address Landscape Engineer, care HORTICULTURE.

SITUATION WANTED—As foreman or manager of some good all-round place by young man with 20 years' all-round experience. Good grower of cut flowers, general stock and nursery stock. Good landscape engineer. Total abstainer. Good references; good wages expected. Place preferred which can be bought later. Address Horticulturist, care HORTICULTURE.

WANTED—Situation as Head Gardener on private place; capable of taking care of orchids, ferns, palms, roses, etc. Best of references. Address N., care of HORTICULTURE.

We can with pleasure recommend the services of a skilled gardener and orchid grower to any lady or gentleman requiring the services of such a man. Apply Carrillo & Baldwin, Secaucus, N. J.

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FOR SALE.

Desirable Greenhouse Plant, directly opposite Spring Forest Cemetery, Binghamton, N. Y. Large and increasing demand for Funeral Designs and Bedding Stuff; care of cemetery plots big item in receipts. A dwelling house, 10,000 feet of glass, land comprising twenty city lots. Paying business and open chance for increase. Sold on account of advance in years. Apply to James B. Tully, 47 Spring Forest Ave., Binghamton, N. Y.

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4-in. boiler tubes, second hand. In fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

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PRICE \$1.50 PER PINT BOTTLE. \$13.00 PER CASE OF 10 PINT BOTTLES.

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Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/2 " " "	5.25	60 8 " " "	3.00
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1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
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500 4 " " "	4.50	24 11 " " "	3.60
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144 6 " " "	4.51	12 14 " " "	4.80
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Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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STEEL PLATE BOILER

built especially for hot water greenhouse heating. We do piping and fitting according to most approved methods, in economical manner and with satisfaction guaranteed.

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Our correspondent's advice to use Scalecide on rose bushes should not be construed as recommending the use of that insecticide during summer indiscriminately. Scalecide should be used with extreme caution on rose bushes except in the dormant season, and although it is non-caustic and non-irritating even to the eyes, it will scald the rose leaf during hot weather if applied in the mornings or during the heat of the day. It has been used in the late afternoon without any injury whatever. For the green aphids on rose bushes, it may be used at a strength of 1 to 50 of water.

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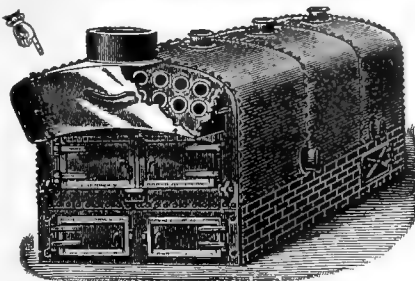
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The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

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82 feet or longer
HOT BED SASH
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The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-inch Mower \$5; No. 2—15-inch Mower \$6; No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8. Send draft money-order or registered letter.

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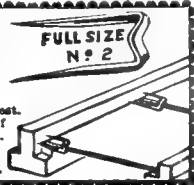
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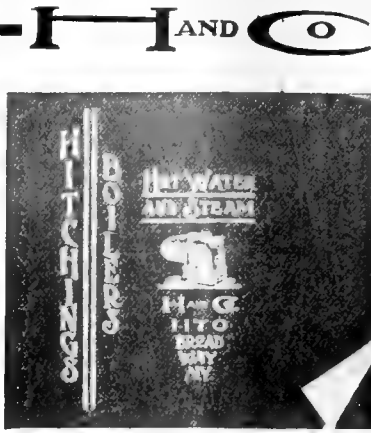
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can set up a "Burnham" Boiler at our factory and test it before shipping it to you—then two men can set it up in your boiler cellar. When it IS set up you can depend on its being ready for business AT ONCE—and that's where the value of our shipping test comes in—a test given by no other firm selling boilers to the greenhouse trade. In the first place you get a boiler that's made especially for greenhouse work. All after that is summed up in ease of running and an unmatched fuel economy. Two things that every wide-awake, long-headed florist must have. Write for Burnham Facts.

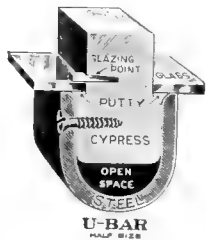
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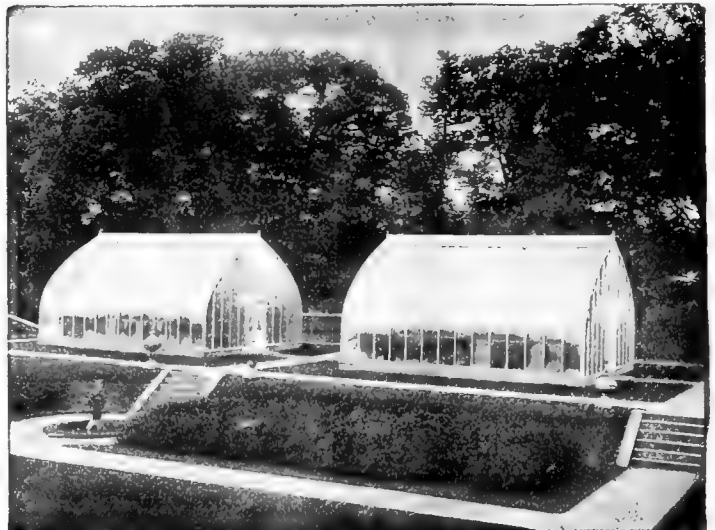
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HORTICULTURE

Vol. V.

MAY 4, 1907

No. 18



ROSA SETIGERA AND HYDRANGEA

A Corner in the Italian Garden on the F. S. Moseley Estate, Newtonport, Mass.

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FLORIST, PLANTSMAN,
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All sound and in fine dormant condition.

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8 to 9-inch	\$0.75	\$4.50	\$50.00
9 to 11-inch	1.00	8.00	75.00
11 to 13-inch	1.75	14.00	137.00

LILIUM SPECIOSUM ALBUM

	1.00	7.00	65.00
8 to 9-inch bulbs			
11-inch and over	2.50	20.00	175.00

LILIUM SPECIOSUM MELPOMENE

	Doz.	100	1000
8 to 9-inch bulbs	\$0.75	\$6.00	\$55.00
9 to 11-inch bulbs	1.25	8.50	80.00

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8 to 9-inch bulbs			
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11-inch and over	1.75	12.50	110.00

TUBEROUS BECONIAS

SINGLE
Large bulbs measuring 1 1/4 inches and upward.

Crimson
Scarlet
White, pure
Rose
Pink, light
Yellow
Salmon
Orange
Copper

Separate colors, or all colors mixed.

Doz.	100	1000
35c	\$2.25	\$20.00

Extra large bulbs, 1 1/2 inches and up, same colors as above, 50c per doz.; \$2.75 per 100; \$25.00 per 1000.

DOUBLE
Large bulbs measuring 1 1/4 inches and upward.

Crimson
Scarlet
Rose
White, pure
Orange
Salmon
Yellow
Copper Bronze
Light Pink

Separate colors, or all colors mixed.

Doz.	100	1000
55c	\$4.00	\$35.00

Extra large bulbs, 1 1/2 inches and up, same colors as above, 75c per doz.; \$4.50 per 100; \$40.00 per 1000.

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Please describe fully and quote prices to include carefully wrapping leaves and delivery, f. o. b. cars.

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ORCHIDS

Importations, 1907

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Plants from 2 1/2 in. pots, 50c. per doz. \$3.00 per 100

Ageratum Inimitable, Princess Pauline and Blue Perfection, Salvia Ball of Fire, Anthericum vittatum, Fuchsias in variety, Heliotropes, Ipomaea, Heavenly Blue, variegated Periwinkle, Cobaea scandens, Cuphea, Lantana, Lobelia, Parlor Ivy, Snapdragon Giant White, Shasta Daisies, 3 varieties, Bouvardia Humboldtii for summer flowering, Moonvine, the true white variety, Night-Blooming Jasmine, Viburnum plicatum. The same varieties, strong plants from 3-inch pots, \$1.00 per 100.

Asparagus plumosus and Sprengerii, strong plants, 5-inch pots, \$2.00 per doz. Dracaena indivisa, fine stock, \$2.00 per doz. Passiflora coerulea, Pfordii x Mammoth Beauty, a hardy variety from 4-inch pots, \$1.00 per doz; 3-inch pot plants, 75c. per doz. Clematis paniculata, 4-inch pots, \$1.50 per doz., \$10.00 per 100; 3-inch pots, 75c. per doz., \$5.00 per 100. Clematis, large flowering varieties, home-grown, two-year-old plants, \$3.00 per doz. Swainsona alba, 3-inch pots, 75c. per doz., \$5.00 per 100.

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Seedlings from flats at \$1.00 per 100

Asparagus Sprengerii, Smilax, Ageratum, Verbena, Dracaena indivisa, Marguerite Carnations.

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2 1-4 inch, \$10 per 100

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BAMBOO STAKES

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GRAFTED
Brides and Maids
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Best English Manetti
Elegant Stock; Guaranteed to Give Satisfaction.
\$10.00 per 100

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Grand New Pink Carnation for 1907
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Price of pot plants, 2-1-4 in., \$3 60 per doz.; \$15 00 per 100.

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For July 1 Delivery Contracted For.
Only the Newest Kinds
Also CHRYSANTHEMUM NOVELTIES
SEND FOR LIST
HARLOWARDEN GREENHOUSES, Greenport, N. Y.

DON'T Be Afraid To Invest In
ROSE PINK ENCHANTRESS
It is both free and "fancy"—a sure money-maker.
Price \$7.00 per 100; \$60 per 1000
Delivery January and later. Write for Descriptive Circular.
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824 No. 24th Street, Philadelphia
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Red Chief —Bright scarlet—early and very productive. \$12.00 per 100; \$100.00 per 1000. Average 3 in. flower. A leader in every respect.
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Barrowsii, 4 in., \$15.00 per 100.
Adiantum Croweanum 6 in. 50c each.
Ficus Elastica 6 in., 50c; 7 in., 75c.
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THE NEW VIOLET
Originated and introduced by
H. R. CARLTON, Willoughby, O.
We have the following stock in the finest condition to plant and now is the time to plant:
2½ inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000
4 " " 2.50 " " 12 " 100 " 75 " 1000
It will pay you. Try it. Order at once.

ROSES
Guaranteed Strong, Healthy Stock, 2½ in. pot.
RICHMOND, \$4.00 per 100, \$35.00 per 1000.
GOLDEN GATE, IVORY, BRIDESMAID, \$2.50 per 100, \$20.00 per 1000.
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Thuja Hovey, 2 ft.; 3 ft.
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" *occidentalis*, 3-4 ft.; 4-5 ft.; 5-6 ft.
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Bryophyllum calycinum (Salisb.)



botanical press without previous immersion in hot water. It receives its generic name from two Greek words meaning branch and leaf, from this habit.

Bryophyllum is a perennial, evergreen, succulent, frutescent, stove-house plant, which belongs to the natural order Crassulaceae and is native of Mexico, although now widely distributed in the tropics. It was first introduced into England from Calcutta by Dr. Roxburgh, who in turn procured it from the Moluccas. It grows in the Philippines and is the *Bryophyllum germinans* of the second edition of Blanco's flora.

It has also escaped in southern Florida, where it flourishes luxuriantly when once established. The flowers are pendulous, arranged on open, paniced cymes, rather large, of yellowish green color tinged with purple; the calyx is bladdery and of oblong form from which the tubular corolla projects as can be seen in the illustration. It is successfully grown when given good drainage, rich soil and moderate heat.

Carl Blomberg

• Plant Plenty of Annuals

I understand fully that every reader of HORTICULTURE is so well versed regarding the cultivation of our annual flowers that comment along this line is entirely unnecessary, but as I am and always have been such an admirer of this class of flowers, I cannot but feel that you will forgive me for urging their very liberal planting in your gardens, as the outdoor season for sowing the seed approaches. There are no flowers more useful all through the summer and early autumn than annuals; you need them in unlimited quantities for the vases and other decorations that are daily made, especially for the luncheon and dinner table. Again for exhibition purposes at the fall flower shows what is there better? It is very easy to have them by giving the matter a little forethought now.

Whenever I think of annuals my mind always reverts to those popular favorites that it seems to me should be grown whenever circumstances will permit in large quantities; those elegant varieties whose cut blooms can not only be used in decorative work, but also serve in the first place for exhibition purposes. I refer to such valuable subjects as asters, balsams, calendulas, coreopsis, cosmos, marigolds, mignonette, nasturtiums, poppies, Phlox Drummondii, salpiglossis, scabiosa, stocks, verbenas and zinnias. Space forbids a more lengthy list. Most of these sorts are fine for cutting, in fact can be used with very satisfactory results all through the season. I have not forgotten sweet peas, but as they are planted outdoors so much earlier than the other annuals, and moreover have by tacit consent been placed in a class by themselves, I will say no more about them at this time. Having directed your attention to some of

A relic of bygone years, when greenhouses on private places were more occupied with collections of decorative and flowering plants and curiosities from the vegetable world, than in our day. Now the mercantile products of cut flowers have increased and thrown out the old-fashioned but always interesting plants, which gladdened not only the amateur grower and lover of the children of Flora, but also gave joy to the old gardener. Very seldom nowadays we see these old-timers, and I, therefore, thought it would give pleasure to some of the younger people in the craft to be acquainted with one of them. It is a plant cultivated more for curiosity's sake than anything else. The student of botany finds here something that he very seldom will discover in any other plant, namely, its mode of propagation, because every notch of its leaf when taken from the plant and placed in a moist and warm location will produce a new plant. Indeed, new plants will form on specimens placed in the

our most esteemed annuals I will leave you to extend the list to any length you please, according to the purposes you wish the flowers for and your garden space allows.

How seldom do we stop to think what a wonderful variety of annual flowers there are that never find a place in our gardens. The list is a very long one. A close perusal of some of our seedmen's catalogues, who give special attention to flower seeds, will assist materially in making selections. How often it happens after we have decided to make a display of annuals at some horticultural exhibition that we are obliged to do considerable hunting around our gardens to make up a passable show, and even then are quite often forced to put in some pansies or other subject that will cause the committee on prizes to debar our exhibit from competition on the ground that the flowers are not all annuals. The best displays of annual flowers I have ever seen have been at the exhibitions of the Massachusetts Horticultural Society at Boston, and in the prize schedule of this society for the coming season I notice that the date set for such displays is August 3d, and that three prizes are offered. The wording of the schedule is as follows: "Annual—General display, named, not less than twenty-five varieties, filling not less than one hundred bottles." Now in order to properly compete for such a prize it is self-evident that preparations must be made at planting time, otherwise with most of us our best display made up from what we would naturally have would fall far short of making even a creditable appearance in such a competition.

I have referred at length to this matter of exhibiting annuals, as I earnestly feel that it has never been given the attention it deserves. There is no extra expense attached to growing a fine collection of annuals for exhibition, as, apart from this purpose the flowers are needed at this season, especially for the luncheon and dinner table. It is almost impossible to have too many of them.

M. B. Fayson

The Outlook for Small Fruits

At present, in spite of the cold winter and late spring, the outlook for the small fruit crop is most promising. This is chiefly due to the deep snow of the past winter, which covered the ground so effectually during the severest weather, that in many places hardly two inches of frost could be found. In many instances where raspberry and blackberry canes were not laid down, they were entirely covered by snow which drifted over them, and now appear green and healthy; indeed in

better condition than those laid down. If we could be sure of such a winter each year there would be no need to take the trouble necessary to perform the operation of laying the canes down. Currants and gooseberries were also snowed under and appear in the best condition, but these fruits are seldom hurt by severe weather even if left unprotected; however the blanket of snow is appreciated by even these hardy bushes.

No fruit is more influenced by the weather than the strawberry for, while it always has to be protected with straw or litter of some sort, the difference between a snow and snowless winter is very apparent. This season the strawberry leaves under the mulch are as green and fresh as they were when covered in the fall, while the roots are in the very best condition. During an open winter even with the best of cover, strawberries will lose most of their foliage and appear brown and dead in the spring, while the roots, which have been trying to maintain themselves in ground that is constantly freezing and thawing are more or less laid bare and their vitality lessened. Another great advantage of a late spring for the strawberry crop is that it retards the blooming season at least one week and many of the early varieties are thus saved from a frost. Marshall is a variety which is most certain to start when the weather is warm in April and of course the blossoms are frozen. This climate is not adapted to successfully growing the extra early varieties. If things come on normally now the crop of strawberries ought to be large and of good quality, although a frost during the blooming season may upset all our best plans. Strawberry beds uncovered about the 25th of April should have a good dressing of wood ashes and bone meal to get a strong growth of foliage and stem. It is also an excellent plan to mulch currant and gooseberry bushes at this time with manure (well rotted) covering the manure with soil to keep it from drying up.

While plums can hardly be classed among small fruits, yet a word about them in passing will perhaps not be amiss. The promise for this crop is very fine, but here again a frost about May 15-18 would ruin our hopes. The fruit grower is ever menaced by change of climate, but one success very often pays for two failures. Plum trees should be well cultivated for about a month and then mulched with some litter or straw. Don't forget to spray the trees well, and for this use a weak solution of Bordeaux mixture not more than 2 1-2 lbs. of copper sulphate to 50 gallons of water and four lbs. of lime; in fact spray all your fruit, strawberries included. Put in some arsenate of lead for the currants and gooseberries and you will only have to spray once.

WILFRID WHEELER.

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British Fruit Growers' Foes

It is generally recognized that the fruit-growing industry in Britain does not receive the same amount of fostering aid as is the case in most of the Colonies. Take Canada, for instance. The Dominion growers, who have just finished another successful export season, have greater advantages from their Government in the pursuit of their business than is the case in Britain. Government inspectors visit the principal orchard districts to give demonstrations in pruning, spraying, and other necessary operations conducive to good culture. The Government has also established a standard for securing uniform grading and efficient packing. Inspectors are appointed to see to the carrying out of the provisions of the Fruit Marks Act, which requires the apples to be packed in barrels to correspond with the marks outside. As a rule, buyers on this side can rely upon the grade marks correctly representing the actual quality of the fruit. The Dominion authorities also enforce regulations for the suppression of orchard pests and diseases.

For some years there has been an agitation in Britain to secure a greater protection to the orchards against the spread of infection. At the present time the orchardist who keeps his holding clean and healthy too often has his labors nullified by a careless neighbor, whose neglect may ruin the crops of a whole district. The need of some change in our present haphazard methods has been emphasized by the investigations of Professor Salmon, of Wye College, as to the American gooseberry mildew. In various European countries, notably in Sweden, it has been found necessary to take steps to prevent the importation of infected stock. Several of the British fruit-growing associations have passed resolutions in favor of a similar precaution being taken in this country.

A bill dealing with this question of disease prevention was introduced three years ago by Sir James Rankin, one of the Herefordshire members. This provided for the compulsory inspection of infected areas, the destruction of infected fruit and trees and bushes, with compensation for the owners. It also proposed the establishment of a special branch of the Board of Agriculture to deal with questions affecting the fruit-growers. The measure was eventually withdrawn, pending the deliberations of the Departmental Committee appointed by Lord Onslow to inquire into the position of the British fruit growing industry. After holding a large number of sittings, examining witnesses on all phases of fruit growing and distribution, several pages of recommendations were made by this committee in the report which was issued about two years ago. None of these proposals were put into practical shape.

There is now a possibility of growers receiving an instalment of the reforms for which they have been agitating through their organizations for some years. Lord Carrington has brought forward a bill which gives the Board of Agriculture power to act in case of need in the suppression of fruit pests in the same manner which proved so effective in dealing with the Colorado beetle some years ago. This is a step in the direction advocated by many leading fruit experts, and it will doubtless lead to the adoption of further preventive measures. Growers argue that there is a precedent for

the adoption of some protective measures to secure healthy orchards, seeing that the Government enforces stringent regulations to prevent disease spreading amongst the flocks and herds on the farms. Compensation is paid to the farmer who for protective purposes is required to slaughter his sheep or cows, and it is argued that the same system should obtain with regard to the disease infected trees and bushes which have to be sacrificed to secure healthy orchards. An object lesson of the success attending the Government encouragement of fruit-growing is afforded at Covent Garden market at the present time. Numerous cases of clean skinned, bright colored apples are being imported from the Antipodes; the total imports it is estimated will reach half a million cases. Everything possible is done in the Australian dominion to ensure the placing of the fruit on the market under the best conditions. It is satisfactory to find that at last something is being done to assist our home-grower to attain a greater efficiency in catering for the increasing demands for high-class fruit.

W. H. Adsett.

Spring Care of Small Lawns, Etc.

Of late years great interest has been taken in the movement to give school children a rudimentary education in horticulture, but the most sanguine supporter of the measure cannot expect immediate results, but that great success will be achieved goes without saying. It is certainly a great move in the right direction, and deserves all the help anyone either connected with horticulture or otherwise can give.

The residential districts of great cities furnish, each spring, abundant proof of the necessity of instilling some practical knowledge into the minds of the majority of owners, and I am sorry to say not a few of the so called "landscapers."

All at Dayton last August could see for themselves what grand results all over the city had followed the action of the great manufacturing institution of Dayton in instilling into their army of workpeople a love of the beautiful and, not content with this, following it up with illustrated lectures, and practical information. The achievements at Dayton have been frequently lauded in the horticultural press and we have wondered why steps have not been taken ere this by our horticultural societies to bring about corresponding results in their own neighborhoods.

The pruning by enthusiastic but otherwise unfit operators frequently presents the most glaring eyesores. How often do we see fine young fruit trees mutilated by persons who do not know the difference between a wood and a fruit bud and, when it comes to shrubbery, the damage is such as to take more than one season to repair. We venture the remark that a great deal of misinformation on this and kindred subjects has been scattered broad-cast by so-called agricultural papers, etc. We do not wish to be misunderstood in this statement but feel sure the majority of the readers of these notes will understand the class of literature alluded to.

Charles Ingram

HORTICULTURE

VOL. V

MAY 4, 1907

NO. 18

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; Single Copies, 5c

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;
 six months (26 times) 20 per cent.; one year (52 times) 30 per cent.
 Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass.
 under the Act of Congress of March 3, 1879.

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We ended the April, 1907, with no regrets.

Fickle Whatever can be said to its credit in other
 April parts of the country it has certainly been, in
 the northeastern section, the most unseason-
 able. And on many a day and we need no assurance

from "the oldest inhabitant" as to this fact. The effect of the repeated cold spells in April on garden trees and shrubs already weakened by a most protracted and severe winter cannot yet be calculated but it cannot be other than harmful. Nursery dealers have some cause for satisfaction in the unexpectedly long selling season they have enjoyed as a result of spring's procrastination and the season's slow advancement has been also a great boon to the moth hunters. In all other lines of horticultural activity, however, April, 1907, stands as a disappointment in many respects.

A business
with a great
future

The passion for beautifying the home and public grounds with trees and shrubs and flowering plants is, as yet, only in its incipience in this country.

The present generation is not far enough removed from the destructive epoch—when the seemingly boundless forests were an incumbrance, when our native flowers were despised because of their abundance, and when the "clearing" and not the planting was the recognized mark of civilization's progress. But the awakening now under way has a hearty earnestness about it that cannot be misunderstood and no exceptional comprehension is required to see that what is being done today is next to nothing as compared with what the near future will demand. It is safe to predict that the next twenty years will show a development and expansion of the ornamental planting industry in this country such as the world has never seen and far beyond our most sanguine imagination. For the young man aspiring to a lucrative horticultural career the opening in this particular line is the best in sight today.

An anchor
to windward

The Rhinebeck correspondent of a Poughkeepsie paper says, "A large number of new violet houses have been started in town. Will it ever end?"

Rhinebeck certainly has shown unwavering confidence in the future as each year went by, regardless of falling markets and, notwithstanding the pessimists who long ago declared that the violet business was overdone, the passion to build violet houses seems inextinguishable in the breast of every true Rhinebecker. Nobody who has communed with the native of that marvellous country is ever likely to charge him with a proclivity for foolishness so we are ready to accept it as settled that the Rhinebecker knows what he is about and that the end of his building operations will come when the violet business ceases to be profitable and not until then. Still it might be advisable for him to bear in mind that quotation from Don Quixote, "It is the part of a wise man to keep himself today for tomorrow, and not to venture all his eggs in one basket," and in erecting his new greenhouses to build and equip them in such manner that in case of disaster to violet crop or violet market attention may be conveniently turned to other lines which promise better for the time being, at least. Many establishments in the violet section are not so constructed.

WHOLESOME CHESTNUTS.

Hollyhocks should now be planted out in their permanent flowering quarters and, while at it, may as well be staked now as later. Leave at least three feet between the rows and room for the plant in the rows to develop individually perfect.

All perennials intended for out door planting should be set out without delay if the work is not already done. Except for planting in mixed borders it is more convenient as well as conducive to more pleasing results in general effect when the plants are in bloom, to plant the different kinds by themselves. A little thought now when planting will enable the planter to make a presentable appearance with this class of plants all through the season without the eye sores sometimes noticeable on account of injudicious planting. A front row all of one kind may be so selected as to take the place to all appearance formerly occupied by the back row of another kind.

There are very few places where there are no spots or objects that would not be materially improved by the planting of trailing or creeping vines or roses. Roses are especially cheerful when in bloom on wood growing unhindered on old fences, up against boulders, the sides of ugly buildings and many other equally objectionable features which when covered as suggested are a delight to the eye.

The appearance of the paths and roads on private estates as well as those of parks and other public places have a great deal to do, one way or the other, with the impression made as to their well kept condition. It is not only desirable that roads and paths should be so constructed as to make walking easy and pleasant, but a freedom from weeds and a neat appearance of the edges only slightly elevated above the surface will add greatly to a reputation for tidiness, and give cause for appreciation out of proportion to the trouble involved.

There are few things more annoying and objectionable than dead and crumbling branches on trees; these should be removed without fail before summer, likewise dead trees unless as stumps they are intended to be made ornamental by the planting of vines. A dead tree is much more unpleasantly noticeable than the absence of a tree.

Now is the time when many plant privet for hedges. When an extra strong hedge almost fence-like in obstructiveness is desirable the plants should be set in a double row in a trench dug the proper depth for the root of the plant. The plants in one row should fill the vacant spaces between those of the other row. The roots of privet are great feeders and for that reason the soil should be rich or made so by the addition of manure when planting. After the plants are all in they will in all probability have a somewhat irregular appearance; this can be remedied, and that with beneficial results in the matter of more robust growth from the base, if all the plants are clipped back.

When both deciduous and evergreen trees or shrubs are on the docket for planting it will be much better to give first attention to those that are deciduous, leaving the others until the last. When planting in places

where the wind blows with terrific force and monotonous frequency it is unreasonable to suppose that one frail tree will be able to stand nobly up against it alone. Thus it would seem folly to plant young isolate specimens in such places. Better, by far, plant a goodly number comfortably in groups and if deciduous trees are desirable a guard composed of white spruce or some other equally hard evergreen will protect them until they gradually get hardened to climatic conditions. Wind breaks such as suggested need not of necessity have the appearance of being there for any other purpose than that of their own ornamental usefulness, if planted in proper arrangement.

SHRUB CHAT.

Privet rooted from last year's wood makes the strongest plants, but that is by no means the only method of propagation. Through the summer good cuttings in abundance may be rooted easily when set in any kind of soil, but leafmould preferably, in a shady situation. The cuttings will root in about three weeks, when they should be lifted and planted out in nursery rows.

Acuba Japonica will not live out doors through a northern winter, but it will hold its foliage when kept under cover in a cold shed or store house.

Andromeda polifolia is a handsome little shrub, hardy as can be, with little nodding clusters of pink or white flowers in spring.

The tree box stands out doors perfectly well all winter and considering their usefulness as decorative specimens, their increase in popular favor is not surprising.

Ligustrina Pekinensis pendula is the Chinese weeping lilac. It has large heads of white flowers.

Among the shrubs suitable for shady places may be noted the following: Berberis in variety, Clethra alnifolia, dentzia, privet, hypericum, kalmia, Pyrus Japonica, rhododendrons, rubus, laurus, sassafras, mahonia, Spirea Bumalda, itea, cornus in variety.

THE GRAPE HYACINTH.

Editor HORTICULTURE.

I was much interested in the article on the grape hyacinth by Mr. Cameron. We see too little of this gem. I remember when some fifteen years ago with a friend from the Experiment station, New Brunswick, N. J., I came across a patch of about one-half acre, on the old "Evans" place just south of the city limits. This is an old manor residence and had been held by the same family over two hundred years. We asked the superintendent to tell us about it. He said he had been there thirty years and that patch was there when he came, only not so large. It was the common blue Muscari bothryoides. We could find no record of when it was planted. It had complete possession of the place and was a sight never to be forgotten. It received no care, only neglect, the proprietors being very old, were hardly aware of its existence. It shows that it is perfectly hardy here and that under favorable circumstances, it will increase and take full possession, being there almost like grass in other places. EDW. REAGAN,

Morristown, N. J.

NOTES ON NEW ENGLISH CARNATIONS.

Editor HORTICULTURE:

I noticed in a recent issue of HORTICULTURE a description of several of my new seedling carnations. There is, however, an error, probably clerical, in what your correspondent says regarding the size of "Mrs. H. Burnett," which he describes as being from 2 inches to 2 1-2 inches across. The average size of the blooms exhibited at the show of the Winter-Flowering Carnation Society was 3 1-4 to 3 1-2 inches; it is only inferior in size to Enchantress and quite eclipses it in color. It beat Enchantress in the class for 36 blooms, light pink, both at the show held on December 4 and also March 13, and was certainly admired more than any other carnation there.

As to its keeping qualities I may mention it is infinitely superior to Enchantress in that respect. Mr. A. Smith, who raised Britannia, begged a bloom of it on March 13th, which was cut on March 10th, travelled 200 miles on March 12 and had stayed in a hot conservatory all day on the 13th. He wrote me on April 1: "The bloom of Mrs. H. Burnett you gave me lasted till yesterday (March 31) which speaks well for its lasting qualities!" I think it does. Three weeks after being cut is pretty good, isn't it? You in America should be able to do this variety splendidly during the winter, where you have so much more sun than we do.

Marmion is not a Malmaison, as stated by your correspondent, but a seedling from Prosperity, the other plant being Mrs. Lawson, though it has the Malmaison habit rather; it is, however, a perpetual flowering carnation of the largest size—four inches across, with as strong a clove fragrance as a Malmaison. I should imagine it rather resembles Toreador, which I believe was raised from the same cross. It is a strictly fancy carnation, and would, I think, quite out-class Prosperity in your country, except perhaps as regards freedom—it being a slow grower.

I should call Mikado more of a heliotrope than a "dull slaty purple." It is either liked very much indeed, or not admired at all. It is a good doer, very free, and averages over three inches and has a strong clove fragrance.

Yours faithfully,

H. BURNETT.

Guernsey, England.

MADISON (N. J.) NOTES.

Arthur Herrington, superintendent of Florham Park, contemplates running two or three houses of roses this season in the "Afton Greenhouses." Richmond, Queen Beatrice and American Beauty will probably be his choices. The rose growers of Madison, are now cutting in quantity fine long-stemmed roses, but prices are not flattering, and the fact that last winter was the poorest in their history, on account of the unfavorable weather, tends to keep their cash account below what was looked for. Many are going to devote some of their space to carnations this year.

News of the Clubs and Societies

NORTH SHORE (MASS.) HORTICULTURAL SOCIETY.

At the regular meeting of this society April 19th, R. A. Mitchell gave an interesting address on pruning fruit and shade trees, showing the advantage of experience and good judgment in that line of work over the man who sets out with a pair of shears or knife and a determination to cut something because it is the season for such work. Mr. James Salter was awarded a certificate of merit for vase of antirrhinum.

On April 26th, under the auspices of this society, J. K. M. L. Farquhar gave a public stereopticon lecture in the Town Hall, Manchester, on "Gardens of Italy." Pictures were shown and descriptions given of the restored gardens of Pompeii, the marble and bronze sculpture and statuary being but very little damaged owing to the extreme lightness of the lava or ashes under which they have been buried for over 1800 years. This style of garden is the courtyard garden, and is the oldest form of Italian garden, similar in construction to the high-walled gardens of China and Japan, architectural rather than horticultural. Gardens of Florence, Rome, Naples, Milan and Genoa were also visited. In nearly all the old gardens the same idea prevailed—marble, running water and foliage, with here and there a few flowers. A later style of garden is that of the Renaissance period, where the informal gives place to the formal and all flower beds and walks are of geometrical design. Mr. Farquhar did not recommend the Italian garden as suitable for the rigorous winter climate of New England, preferring the English terrace garden where formal treatment is inevitable. In the garden of the Czar of Russia was shown what can be accomplished by the use of bay trees, box and other trees grown in tubs and under which condition they can be moved and given necessary winter protection.

WILLIAM TILL.

THE HORTICULTURAL SOCIETY OF NEW YORK.

Dates have been fixed for the International Conference on Plant Hardiness and Acclimatization, which is being organized by the Horticultural Society of New York. The conference will extend over three days. The opening session on Sept. 30th will be held in the rooms of the American Institute; the second day will be devoted to an excursion to some point of interest in the neighborhood, and the final day's session of the conference on October 2nd, will be held in the Museum Building of the New York Botanical Garden.

The preliminary program is being put into shape and will shortly be issued. A list of about two dozen titles has already been prepared and a very interesting conference is assured. The Secretary is still open to receive suggestions and promises of communications from horticulturists, and communications should be addressed to the office of the society, Room 60, 55 Liberty street, N. Y. City.

LEONARD BARRON, Secretary.

ELBERON HORTICULTURAL SOCIETY.

The Elberon Horticultural Society held its regular meeting on April 22nd, with President W. D. Robertson in the chair.

Peter Murray, superintendent for S. R. Guggenheim, read an instructive paper on hardy shrubs. Mr. Murray dealt with his subject in a creditable manner. An interesting discussion followed.

The principal exhibits at this meeting were collection of early-flowering shrubs shown by A. Greib, early vegetables by F. Detlinger, Bride roses by A. Bauer, carnations by J. Kennedy, and a plant of *Cattleya Skinneri* by P. Murray. Cultural certificates were awarded to Walter Swain for a specimen hydrangea and P. Murray for American Beauty roses.

GEORGE MASSON.

COLUMBUS FLORISTS' CLUB.

At the final meeting for April vice-president R. A. Currie was in the chair, and a large gathering of members were present. It was voted to hold a rose and strawberry show, Tuesday, June 11th, and M. B. Faxon, I. D. Siebert and A. Wedemeyer were made a committee to arrange details. Plans were started for our annual field day, in fact the committee in charge hope to fill two special cars to Buckeye Lake this year, so very popular has this event become. The seed committee are still at work making the annual distribution to the school children. In this connection I will say that the Board of Education has purchased a set of garden tools for each school building. The display of plants and flowers was a very creditable one, and the floral committee awarded to I. D. Siebert for a fine vase of white and yellow snapdragons 18 points. What will probably prove to be the last tulips of the season, gained 17 points for R. A. Currie. The varieties shown were King of the Yellows and Kaiser Kroons. At a late hour an adjournment was taken to Tuesday evening, May 14th.

AMERICAN CARNATION SOCIETY.

Carnation registered, by Stanley B. Fillow, Westport, Conn. "Juanita." A bright scarlet of the largest size and a very strong stem. A very free bloomer and an easy rooter.

ALBERT M. HERR,

Lancaster, Pa.

CLUB AND SOCIETY NOTES.

The preliminary schedule of prizes to be awarded at the 9th annual exhibition of the Tarrytown (N. Y.) Horticultural Society, Nov. 6, 7 and 8, 1907, has been issued. Send to Secretary E. W. Neubrand, Tarrytown, N. Y., for a copy.

The Annual May Exhibition of the Massachusetts Horticultural Society will be held at Horticultural Hall, Boston, on Saturday, May 4, from twelve to four o'clock. The schedule calls for displays of calceolarias, pelargoniums, tulips and other spring-flowering plants, and vegetables. Admission is free.

WM. P. RICH, Secretary.

WASHINGTON STATE FRUIT NOTES.

The United States Department of Agriculture has sent a new variety of oranges to Kennewick, southwest of Spokane, for experiment purposes. C. W. Storey and James Crowell have been selected by the department to conduct the experiments. The trees are cold-resisting citranges recently developed by the department, and it is believed by experienced orchardists that they will thrive in the Kennewick country which has a mild winter climate and early spring. Growers all over the State are watching the outcome with interest and if the tests are successful more trees will be planted next year. The district is considered a favored one for grape culture, some of the growers cutting crops of Black Hamburgs, Flame Tokays, Muscats and Sweetwater valued at from \$500 to \$600 an acre. Most of the growers combine peaches with the grapes; thus an acre yields from \$9 to \$10 in both fruits.

'Apple growers in the Wenatchee valley, west of Spokane, have adopted a plan which probably could be followed with profit by orchardists all over the United States. It is to raise apples for the Australian market, where the top prices in the world are paid for red fruit.

Edward Wagner, who recently disposed of a shipment of 3,100 40 pound boxes of central Washington apples in the land of the Kangaroo, where he discovered the market, declares the following varieties are good shippers and command high prices on the Australian market: Spitzenburg, Winesap, Rome Beauties and Missouri Pippins. The Jonathan apple is not wanted, he declared recently on his return from Sydney, adding: "The people want red apples and they are ready and willing to pay top prices. I did not have the least trouble in selling the red varieties, but they would not take the white ones as gifts. That is a 'tip' to growers all over the United States."

Official announcement is made by Robert H. Cosgrove, secretary and manager of the Spokane Interstate Fair association, and L. G. Monroe, secretary of the Spokane Chamber of Commerce, of a special prize of \$500 for apples at the fruit exposition next September, and there will also be prizes for peaches and plum exhibits, the fruit department prizes alone aggregating \$5,000. Prizes will also be offered for the best special display of apples and green fruits, while a prize of \$1,500 will be awarded for the best agricultural exhibit, containing a display of all varieties of farm and orchard products. The total prizes will amount to more than \$40,000 this year, and a lot of good natured rivalry is certain to follow.

OBITUARY.

Mrs. Gordon, wife of George Gordon, gardener for Dudley Pickman, Beverly, Mass., died on Friday, the 26th ult. Mrs. Gordon was greatly respected in the community and her funeral was largely attended by sorrowing friends.

PROSPECTS FOR FRUIT CROP.

The following reports from the horticultural inspectors have been received by Secretary M. A. Shute of the Colorado State Board of Horticulture in reply to letters sent out April 5th.

Boulder County—From L. H. Stanton, Boulder:

"The orchards in Boulder county are generally in good condition having been better cared for during the past season than heretofore. The fruit buds have not been injured to any great extent and the prospect for a fruit crop this year is good. The greatest danger is from late freezing, as the buds are a month earlier than usual."

Garfield County—From J. F. Myser, Rifle:

"All fruit buds in Garfield County up to the present time are in perfect condition, with a favorable outlook for the future. The danger period for pears however, has not arrived yet as they are not in bloom. The frost may catch them later when in bloom or about that time and we all know the result."

Pueblo County—From J. N. Bartels, Pueblo:

"Our fruit in this county is somewhat injured from the late cold weather the latter part of March. We are still hopeful that it is not as badly damaged as reports would indicate. One man said to-day 40 per cent. of his peaches were left. Ben Davis apples are nearly all killed. The Yellow Transparent are all safe, as are some other varieties. We are still hopeful. The prospects were never better for a heavy crop until the freeze came, and people were becoming enthusiastic over fruit growing in Pueblo County. The largest acreage of trees will be planted this year in Pueblo County than has ever been planted, perhaps double that of any former years. Most of the trees that have been shipped in are of a superior quality. People are dealing directly with reputable nurseries which is better for both parties."

Montrose County—From Edward Silva, Montrose:

"The fruit crop in this section is so far O. K. The apricots and Japanese plums are badly injured, but the peaches and apples are not hurt at all. The outlook is fine for a large crop of peaches and apples if nothing happens."

Larimer County—From F. Y. Moseley, Loveland:

"The peach and peach-plum have been frosted a little but there are only a few of these in Larimer County and everything else is in fine shape. The prospect for a full crop of fruit is good except that the extreme earliness of the season and consequent extraordinary advancement of fruit buds places most all fruit in great danger for almost a month to come."

Montezuma County—From P. S. Taylor, Dolores:

"No injury to fruit buds. Prospect for the largest fruit crop ever had in Montezuma County. The people are setting out an unusual number of fruit trees."

Denver County—From C. F. Thompson, Denver:

"I find upon investigation that frost in this County up to date has done no damage. The outlook for a good crop of the small fruits is good."

Fremont County—From Thurston White, Canon City:

"I think the fruit prospects are good yet. Doubtless many of the earlier blooms of peaches, plums and apples are killed. I think however there is plenty left for a full crop. Trees are coming in very rapidly for spring planting."

Morgan County—From A. W. Harcourt, Ft. Morgan:

"Early blooming plums are about half killed by frosts, otherwise the prospects is good for all kinds of fruit."

Otero County—From J. J. Brown, Fowler:

"The cold snap that we had here just after Easter did a great deal of damage to the fruit buds, killing practically all of the peaches, about 75 per cent. of the early cherries and from ten to twenty per cent. of the later cherries. I notice that the damage done varies with the orchards, those having been irrigated just before

IRRIGATION OF GARDEN CROPS.



The necessity for irrigation is beginning to be felt in the truck gardens of western New York, and especially in the garden lands of Irondequoit where, on account of a good city market, it is advisable to force early vegetables and great interest has been manifested in the subject of irrigation.

The gardeners have become alarmed, in recent years, at the drought, especially at critical periods in the life of certain crops, and they are giving their attention to the means whereby the land can be moistened and the thought of drought have no fear for them.

The gardeners who have piped their land for irrigation and can throw a good spray, as shown in the picture, are well pleased with the results obtained. The subject illustrated is

celery. The picture shows how it is planted, the rows one and one-half feet apart, and the plants in the row four inches. The celery watered last year, grew well and did not rust. The sprayers are placed so that there is an equal distribution of the water, and the plan is economical. The gardener can, when the celery is ready for market, take up the pipes, and use them, if desired, for winter heating purposes.

The wells from which the water is obtained are usually 12x12 and 20 feet deep, and have so far given an abundant supply of water. The water is forced with a gasoline engine. Celery is not the only crop sprayed. It is done also with spinach, carrots, parsley, beets, musk-melons, and in fact all kinds of vegetables.

H. R. PEACHEY.

the frost came not being hurt as badly as those where the soil was dry. The last frost came on the night after the rain that we had on the morning of April 4th and did very little damage (except that it killed what few peaches that were left) on account of everything being wet. I have not made a very thorough inspection of the orchards yet, as I have been very busy looking after nursery stock, a great deal of which is being shipped into our county this year. The prospect for the apple crop is first class at the present time, there not being such an exhaustive amount of bloom buds, but plenty to give a full crop, and they are well distributed over the trees, thus distributing the drain of sap equally among the branches. The early plums were nearly all in bloom when the freeze came and of course all of the tender ones were killed. The late plums, such as the Lombard, Green Gage, German Prune, etc., are still all right."

Delta County—From H. A. Richardson, Delta:

"The fruit buds are injured some, but the trees were so heavily loaded it was more of a benefit than an injury. The prospects for fruit generally, excepting the apricots, is very promising, and if we have no late frost you will hear from Delta County the coming fall."

SPRING FRUIT PROTECTION.

Replying to an American inquiry, Consul-General A. W. Thackara, of Berlin, makes the following report relative to the German use of smudges in the protection of fruit trees, vines, etc., from frosts:

It is the opinion of all those from whom I have heard that the protection

of trees from damage which may be caused by late frosts, at least in Germany, is by no means in general use, and the method may still be considered in the experimental stage. For instance: In Werder, about 25 miles from Berlin, the center of a large fruit-growing industry, the president of the fruit growers' association writes me that the method is very little employed. In isolated cases the growers have used dried leaves, weeds, sawdust, or some other cheap material which will produce smoke, with more or less favorable results. In the vine district of the Rhine and among the fruit growers of Wurttemberg when a number of the neighboring owners unite together and make a concerted movement to use the smudge method a certain degree of success has been obtained, but the method is not in general use in Germany. It is not intended to give the impression that the question of the protection of fruit trees and vines from frost by means of smudges is not of interest to the agriculturists of this country—far from it. Many exhaustive experiments have been made by experts and others and are still being made, and while the results have not yet been as favorable as were wished for, a satisfactory solution, which would mean millions of dollars probably to those interested, is still hoped for.

A Plea for the Picturesque in Landscape Gardening

(A paper read before the Gardener's and Florists' Club of Boston by B. K. Howard.)

In this paper I speak of landscape gardening from my own point of view. I look at nature as far as I can as a picture maker and not in any way as an expert in horticulture. I shall try to point out some of the things that make a landscape beautiful and paintable and hope it may be of service to some of you in arranging things of beauty in nature itself. First, we are to consider the different styles of landscape gardening and the different results obtained therefrom. The first garden we hear of is the Garden of Eden and probably that would take first prize, even today. It had its defects however. It was lonely for the one poor man who first inhabited it, so the Lord made him a companion from one of his spare ribs while he slept. This would have been all right if he had removed the tree of knowledge, which grew in the centre

Flowers were bedded in every conceivable and horrible geometric pattern or rug or bed spread or baker's confectionery and these inartistic and daylight horrors still exist to the present day in Europe and America. We shall see plenty of it in the Public Garden when the season arrives. The Italian gardens are less ugly than most of the formal gardens. Many of them have beautiful white or stucco work buildings with red tile roofs, which give a fine setting for the cypress trees and the formal garden. Some of the Italian gardens are very beautiful, which is very often due to the fineness of the location. Near the mansion in a private estate, it is generally well to have the gardening more formal in order not to make the break too sudden in going from the formal architecture of the mansion to the freedom of the rest of the estate.

ished garden or park should contain that predominating expression. So much of the landscape gardening that we see is almost exactly alike; no individuality of expression. Instead of taking each individual park or estate and studying it to find out what it already has in the way of natural beauty and sympathetically developing it upon these lines, the whole business is thrown into a grand display of landscape architecture, by a lot of crack-a-jack draughtsmen, who show a mighty little sympathetic feeling for nature. By too much pruning and blasting and leveling, a once spirited landscape may become perfectly tame and insipid.

One should be familiar with nature in all her moods. Be observant and when you see a beautiful thing in nature seize upon it and try to reproduce it in a garden or park; only make it even more spirited and more expressive if possible. There is a beauty of nature and a beauty of art. Art emphasizes the beauty of nature. The secret of all beauty is character; there is no beauty without character and expression. Things which have character are distinct and distinguished, and make a lasting impression upon the beholder. Develop the leading character of an estate or park, and, if the area is sufficiently large, each separate scene may be given its separate character or expression, and the art will be to unite the whole into harmony.

Landscape gardening and painting are nearly allied. The thing is to know your materials and arrange and cast out and add just as a painter does in composing a great canvas. This landscape gardener must have patience, for trees and shrubberies and flowers will not grow in nature as rapidly as they do on canvas, so he must plan well and observe nature carefully, and before he cuts down and casts away he must be very sure that he is cutting down and casting away the right thing.

There are many expressions that might belong to either the beautiful or the picturesque; simplicity, dignity, grace, elegance, gaiety, etc. A few fine trees scattered over a smooth lawn will give a character of simple beauty. Lofty trees of great age, hills covered with rich forest, an elevation commanding a wide country, stamp a place with dignity. A number of bright blossoming shrubs and flowers express gaiety. If a person has small grounds to improve it is best not to attempt too much. A few fine trees and shrubs well placed and, if the house is of simple colonial architecture, quite a lot of roses and climbing plants can be used to great advantage.

The three most important qualities to be embodied in landscape architecture are: Unity, harmony and variety. Unity or the production of a whole or leading expression; a defect in unity might be illustrated by grounds having two or more characters of landscape, which were all right in themselves, but failed to unite in one expression, like effects that would be as incongruous as putting flowers and vegetables together on the lawn, or cast iron statuary among noble trees. There should be variety sufficient to give varied color



UNITY

of the garden. This goes to show that, even at that very early date, a little judicious thinning out would have been beneficial. This garden contained everything to delight the eye and produced food in abundance and there was no work required; no pottering and digging and planting and Adam didn't have to study geometry or perspective. Life in this garden was all the color of a rose, but the crash came and great was the fall thereof, and Adam and his spouse had to go forth and work for a living and make their own gardens and grub and sweat in sun and rain for the little they got in return. (For further information relating to the garden of Eden, read the Bible or "Extracts from Adam's Diary" by Mark Twain.)

Most of the old-style gardens were very formal, purely geometric in every way possible. Every tree and shrub that could be pruned or tortured into a fantastic shape was thus treated.

Downing divides landscapes into two large divisions, namely: the beautiful and the picturesque. The former is characterized by roundness and smoothness and by curving lines, the latter by roughness and irregularity and accidental effects. The beautiful is the artificial from his point of view and from my point of view the picturesque is the beautiful and natural. If a thing is not paintable, to me it is not beautiful. By studying good landscapes by the best masters, such as Davis, Corot, Rousseau, Claud Lorraine, Ranger, you will learn more about what is truly beautiful in landscape than in any other way, because these men are and were masters and know what is best to choose and that which will best combine into unity, harmony and variety. Every landscape has some particular expression and it should be seen and understood by the landscape gardener and his work should be along that line and the fin-

and at every turn new and interesting variation in light and shade and tree and shrub formations, all consistent with a harmonious whole. Among the greens there should be some purples or orange in small or large quantities, according to the strength of the color. Yellows should be tempered with reds or blues. This will give variety and at the same time recognize the law of harmony which presides over the whole to prevent discord. It must not preside too greatly, however, as it may lead to monotony and lose the main feature of expression. A place might be planted with only one kind of tree. That would give unity and harmony, but would leave out variety and produce tameness and monotony. Too much variety would give a mere hodge-podge of confusion.

Up to this time we have learned:

That we should give to a landscape expression derived from a close study

they blossom white or pink or red in colors tender and delicate. Then comes the early foliage so fresh and green, deepening as the summer advances. The ripened leaves flame in autumnal glory when nature is richest and best. Then the forest sows her carpet of red and golden leaves and the bare undraped trees sleep through their winter rest, and seen from a distance, the color of a leafless forest against a snow-clad hill is extremely fine to look upon.

In arranging and planting trees or in clearing away the unnecessary parts, great care and judgment is necessary not to get a stiff formal appearance. Don't have the trees equally distant so they can grow into a round ball, but let them be crowded in places, that they may thus develop character. In making an opening through the wood in order to expose a desired view be careful that it is made at a

should be in lines which will more or less lead up to it. Plants and shrubbery near the house can be of more individual interest, while broader and more general effects should prevail in parts more remote.

(To be continued.)

PUBLICATIONS RECEIVED.

Report of the Commissioners of Lincoln Park, Chicago, for 1906. Expenditures for the year for park and boulevard maintenance and sundry repairs and improvements amounted to \$366,428.17.

U. S. Department of Agriculture, Bureau of Entomology—Bulletin No. 65. The Tobacco Thrips, a new and destructive enemy of shade-grown tobacco. By W. A. Hooker. Issued April 19, 1907.

Bulletin 88, Experiment Station, Iowa State College of Agriculture and the Mechanic Arts, by L. H. Pammel, R. E. Buchanan and Charlotte M. King, Ames, Ia. This bulletin treats of the vitality, adulteration and impurities of clover, alfalfa and timothy seed for sale in Iowa in 1906.

Annual Report of the State Board of Horticulture of Colorado for the year 1905. Martha A. Shute, Denver, Secretary. This contains the proceedings of the annual meeting held in Denver, December 27, 28 and 29, 1905, including a large number of very valuable essays and papers on topics of horticultural interest. The index to this volume is very complete and adds greatly to its value as a reference book.

HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items:

BUFFALO, N. Y.—E. C. Brucker, 385-87 Ellicott St.
CLEVELAND, OHIO—A. L. Hutchins, 2220 East 74th St.
COLUMBUS, OHIO—M. B. Faxon, 246 Oak St.
CINCINNATI, OHIO—Frank W. Ball, 31 East 3d St.
DETROIT, MICH.—Frank Danzer, 1487 15th St.
INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.
LOUISVILLE, KY.—F. L. Schulz, Jr., 1325 Cherokee Rd.
MONTREAL—William Cooper, 338 St. James St.
NEWPORT, R. I.—David McIntosh, Ledge Road.
PHILADELPHIA, PA.—George C. Watson, Dobson Bldg., 9th and Market Sts.
PITTSBURG, PA.—James Hutchinson, corner Dunmoyle and S. Negley Aves.
TWIN CITIES—John A. May, 163 Iglehart St., St. Paul, Minn.
TOLEDO, OHIO—J. L. Schiller, 929 Prouty Ave.

SAVE

your weekly copies of this paper.

DON'T

throw them away.

The contents are always of PERMANENT VALUE and you may need them for reference tomorrow, a year from tomorrow, or still later.



VARIETY IN SKY LINE

of nature and practice in choosing the best.

That art is the power of choosing the best and expressing the most. And that "a thing of beauty and a joy forever," must contain unity, harmony and variety.

These definitions apply to every work of art.

When we see a place without hills or trees of any consequence, or anything to break the monotony of the landscape (for instance, nearly the whole United States west of the Mississippi River until we reach the Rocky Mountain region) it is then we realize how useful and what great beautifiers trees are and how beautiful are our rolling, forest-clad New England hills. There are so many kinds of trees and they can be used in so many kinds of places and they are so necessary for the adornment of nature and the comfort of humanity. They give character and beauty and variety of light and shade and color and make the sky line varied and interesting. The different seasons of the year vary their beauty. In spring

point where the view will present itself in the best composition. On one side of the opening the trees should be larger or more important or in a more solid mass. It is never good composition to have two separated groups of trees of equal importance standing near each other. One group should dominate the other.

Observe the grounds in early morning or just before sunset. Then is the time that nature is most beautiful in her effects of light and shadow. Plan so that a fine distant view shall have a good shadow across the foreground. That gives greater solidity to the foreground and thus increases the aerial softness of the distance. When the ground is of a rolling nature this may be emphasized by planting taller kinds of trees on the higher places; let the valleys have fewer and smaller trees and low shrubbery. The house is usually the most conspicuous and important part of an estate and should be emphasized by backing it up well with large growing trees which will, in time, make a solid background. The planting of the rest of the estate

FORCING BULBS.

By Paul F. Richter before the Florist Club of Philadelphia.

Mr. Richter prefaced his remarks with the statement that he spoke from the view point of the seedsman and not from experience as a practical florist. Speaking of lilies for Easter forcing he said that the florist should not buy small-sized bulbs as for some reason or other the more mature or aged bulbs seemed to outgrow any sickly conditions. The most profitable bulbs for forcing were, in his opinion, the 7 to 9 sizes in *Harrisii* and the 9 to 10 sizes in *Mutiflorum* and *Giganteum*.

Many failures, he asserted, have been traced to the fact that the bulbs have not been thoroughly rooted. Many growers make the mistake of probably trying to get the very first shipments that arrive in the country, pot them up and get them in for Christmas. This is hardly necessary now-a-days, as very good cold storage lilies may be had for this purpose.

We have had occasion to observe that lilies handled in the following manner have bloomed most successfully, and have shown the least tendency to disease.

A small layer of well-rotted, cow manure in the bottom of the pot is very advantageous; the bulb is placed on this and the pot filled up with soil. After having been watered thoroughly they should be placed outside, say until October first, (where the bulbs have been potted in August), with a covering of sand, leaves, or other litter on top of the pots to protect them from the sun. When they are brought in, say in October, they can be placed under the greenhouse bench in a temperature of about 60 degrees, and left there until there is room in the top, or until they are to be brought into warmer houses to force.

Mr. Richter quoted as follows from the statement of a successful grower as to his method with *Lilium giganteum*, 9 to 11 size.

"Upon arrival of bulbs we pot at once in 4 inch pots, using coarse soft-coal ashes for drainage in the bottom of pots, and giving them a soil composed of sandy loam and well enriched with about one-third well-rotted horse or cow manure. Pots are placed under a dry bench in either a violet or carnation house, soaked down with water very heavy, and after two or three days we cover the pots with two or three inches of ashes. When Easter is early, as it was this year, we place lilies on bench after January 1st, giving them a temperature of 60 degrees night and 70 degrees day for about ten days, then 70 degrees night and 80 degrees day until buds can all be counted. During this period we manure-water them regularly once a week with the following liquids: One bushel fresh cow manure and one 4 inch pot full of nitrate of soda to each 50 gallons of water. Spray the foliage once a day (twice a day when clear weather). We try to keep the house moist otherwise by spraying the walls and walks. It is also very important to never allow the soil to get very dry, and we never feed unless the soil is moist.

When the buds can all be counted easily, we move them into houses where we can get the temperature down gradually, and finally mulch them with either a little sheep manure or bone flour, which will be sufficient feed until ready for market."

"Our experience with lilies, especially Japan, has proven to us that the only way you can get them good is to force them quickly and not check them in growth while temperature is kept high. As the root action becomes such that they can easily be knocked out of the pots without disturbing the ball of earth,

we shift them either into 5 inch or 6 inch pots according to strength of stock. Drainage in the pot is also of great importance when repotting is done. We use Nicotinic acid for fumigating."

The cold storage lilies which are now coming into great favor are confined principally to the varieties of *Longiflorum*, *Multiflorum*, and *Giganteum*. The latter variety, however, is much more desirable, as it seems to stand forcing better than the other two. *Longiflorum* is the next best, while *Multiflorum* is probably the poorest, as it is somewhat soft, probably due to the fact that in the green state it is the most free forcer of the Japan lilies.

To obtain the best results, cold storage bulbs should be potted immediately upon being received. They should be placed in a dark, cool place, —probably under the bench of the potting house would be the best. They should then be left there in a cool temperature as much as possible, until the pots are well filled with root growth when they should be removed to a greenhouse and started off at a temperature of about 50 degrees to 55 degrees, and kept thus until the buds set, when the warmth may be increased to 60 degrees or 65 degrees to 70 degrees.

Cold storage lilies should commend themselves to every lily grower, if it were only for the reason that they can be brought into flower in twelve weeks from the time they are potted. They require the space of the greenhouse but a very short time, compared with what is ordinarily required to bring the fresh stock of lilies into bloom, the saving being anywhere from two to three months, thus saving both labor and heat.

Referring to Paper White narcissi and Roman hyacinths he said that failures are generally due to not allowing sufficient time for forcing. He emphasized the fact that it is absolutely necessary to root all bulbous stock in a most thorough manner before bringing it into bloom.

Failures with tulips and hyacinths, he said, are frequently the result of unwise selection of varieties. For instance, the *Potterbakker* tulips, which may be forced very successfully at times, are in some years liable to go blind. The *Hollanders* claim that this is not a forcing tulip, and therefore should not be used for that purpose. There are a number of other sorts which can not be counted upon to bring the best success, such as *Chrysolora*, *Duchess de Parma*, and similar varieties. In their catalogs most seedsmen have the forcing tulips marked with an asterisk or some other method, and as the seedsmen takes his experience largely from the *Hollander*, it is well sometimes, if not always, for the florist to be guided largely by this.

As to Dutch hyacinths some persist in buying *Baroness von Thuy*, a handsome white sort, but not at all adapted to forcing for Easter. It has a tendency to "cut its throat;" that is, after the bud and stem have developed nicely, it seems to come to a stand-still below the foliage while the stem a little farther down simply rots off; what causes this I do not believe has ever been determined. Of the *Narcissi*, *Alba Plena Odorata*, *Poeticus*, and similar kinds, are wholly undesirable for forcing.

He recommended the *dielytra*, or *Bleeding Heart* as a good subject for

Easter forcing. They cost very little, require little attention to get them into flower, and pay equally as well as any Easter plant one could force. Also the Spanish irises which remind one very much of dainty little orchids. These may be planted among carnations, and will do very well. They bring a handsome price when cut, while the cost of the bulbs is in the neighborhood of \$3.00 or \$4.00 per thousand, and they require no attention from the time they are planted until they are cut.

The hardy Japanese lilies, such as *auratum*, *album*, *rubrum*, etc., while they can not be brought in very well for Easter, make an excellent lily for selling in pots or for cut flower purposes during the summer. They can be potted up when they arrive from Japan, say in October, and can be brought into flower without a bit of trouble by April or later as required. They cost considerably less than *Harrisii* and other Easter lilies, with which however, they must not be confused as they are not Easter subjects.

PLANT IMPORTS AT NEW YORK.

There were entered at the port of New York during the week of April 23 to 29 inclusive, the following plants:

From Holland: R. F. Lang, 1 cs. plants; McHutchison & Co., 2 cs. do.; P. Ouwkerk, 17 cs. trees; August Rolker & Sons, 1 cs. plants; Order, 8 cs. do.; Sundry Forwarders, 37 cs. plants, 18 tubs do., 4 cs. trees.

From Belgium: American Express Co., 14 tubs laurel trees; H. F. Darrow, 196 tubs laurel trees, 19 cs. plants; Chas. F. Meyer, 2 tubs laurel trees, 13 cs. plants; P. H. Petry & Co., 12 tubs laurel trees, 1 cs. plants; T. C. Pollock, 16 tubs laurel trees, 6 cs. plants; August Rolker & Sons, 97 tubs laurel trees, 1 basket do., 48 cs. plants; J. Ter Kuile, 16 tubs laurel trees, 5 cs. plants; Vaughan Seed Store, 80 tubs laurel trees, 42 cs. plants; R. M. Ward & Co., 16 tubs laurel trees; Sundry Forwarders, 194 tubs do., 107 cs. plants.

From France: Sundry Forwarders, 27 cs. plants.

From Germany: J. de Young, 4 cs. plants; Sundry Forwarders, 10 cs. do., 1 cs. trees.

Via Glasgow: H. E. Fish, 7 cs. plants. Via Liverpool: Sundry Forwarders, 4 cs. plants.

APPRAISER'S DECISIONS.

On the protest of F. B. Vandegrift against assessment of duties on mistletoe at the port of Philadelphia, the Board of General Appraisers on April 22, ruled that mistletoe stems with the natural berries attached are free of duty as a crude vegetable substance, under paragraph 617.

Baskets of wood shavings and bamboo strips are held dutiable as manufactures of wood, under paragraph 208.

Assessment of duty on cypress and beech leaves dyed and painted has been affirmed as proper under paragraph 425 as ornamental leaves, etc.

CATALOGUES RECEIVED.

Turkey Creek Nurseries, Barber-Frink Co., Inc., proprietors. Catalogue of oranges, pecans, grape fruit, figs, etc., besides the usual list of hardy fruits and ornamental trees and shrubs.

Robert Montgomery, Jr., who has been with Schlegel & Fottler, Boston, for the past two years goes to Dreer's Philadelphia seed store next week.

Seed Trade

Cool weather continues and though not extreme enough in the east, is nevertheless severe enough to seriously affect gardening operations, and it is now so late there is no hope of recovering the lost ground. In the west, regular winter weather prevails, with snow and freezing temperatures. Vegetation as far south as the latitude of Washington, D. C., is very backward, natives saying it is two to three weeks late.

Pears have quite generally been planted for seed purposes in Wisconsin, Michigan and Canada, and are coming up nicely. The cool weather, so long as it keeps above the freezing point, will not seriously affect them, but a little more moisture would do them good. The soil is in most cases in excellent condition to receive seed, and most root crops are planted and germinate quickly excepting in those sections where the ground has recently been covered with snow and freezing weather prevails.

The excitement anent the onion seed crop has mainly subsided, and the trade has settled down to await results. It will be some weeks, however, before the real situation will be known, and in the meantime let us hope it will prove less serious than early reports indicated.

The matter of raising funds for the entertainment of the seedsmen at their forthcoming convention in New York city is receiving attention from the local committee, and as is usually the case in such affairs, a few give liberally, while others require some urging. However, New York will not fail to extend generous hospitality to the strangers within her gates, and a most enjoyable time is assured to all who attend the convention.

W. Atlee Burpee sails for Europe in June, while his "right bower" Howard Earl "sails" for California a little later. Here are enterprise and progress reduced to a science. In giving honor to whom honor is due, it is only just to say that no house of this generation has done more to elevate and give prestige to the seed trade than W. Atlee Burpee & Co.

BEGONIAS



TUBEROUS ROOTED

Doz.	100
Single White	\$.50 \$3.00
Red	.50 3.00
Rose	.50 3.00
Yellow	.50 3.00
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Mxd Colors	.40 2.50
Double colors, separate or mxd.	1.00 6.00

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True Long-Leaved Variety

Splendid, shapely stems, ranging in weight to suit the most particular buyer. We offer as follows: 5 lbs. at 12c. per lb.; 10 lbs. at 10c. per lb.; 25 lbs. at 8c. per lb.; 100 lbs. at 7 1-2c. per lb.; 300 lb. (case) at 7c. per lb.

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Our stock consists of a complete assortment in first-class condition.

Cannas, choice named varieties, some sold as high as \$5 and \$6 per 100, **Now \$2.50 per 100, \$20.00 per 1000**

GLADIOLUS

	Doz.	100	1000
Mammoth Bulbs in mixture	.20	\$1.25	\$10.00
First quality "	.15	1.00	8.00
Groff's Hybrids "	.25	1.50	14.00

CALADIUMS (Elephant Ears)

	Doz.	100	1000
Monster Bulbs	\$1.35	\$10.00 \$95.00
Mammoth "	1.00	7.25 70.00
First size "75	5.00 47.50
Second "40	3.00 27.50

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For the Herbaceous Garden,

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For the Vegetable Garden,

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Wholesale Catalogue Ready. Send for it today. But first read our advertisement on page 105 in the Horticulture for January 26, 1907. It is worth reading.

James Vick's Sons
Seedsmen Rochester, N. Y.

CERTAIN USES OF THE SCHOOL GARDEN.

(A Paper Read Before the Massachusetts Horticultural Society by Miss Anne Withington.)

In the conduct of my work of teaching city children something of the art of gardening, I have found much entertainment and often much profit in the casual remarks of the persons who hang over the fence to view the living scene. Of the contribution the city school garden makes to the panorama of city life I shall have more to say. My reason for introducing the casual observer here is that, like others who take a friendly interest in the school-garden movement, he usually has two reasons to justify the introduction of this new branch of learning into the school curriculum.

First—The moral effect produced by an acquaintance with Mother Nature.

Second—The economic benefit to be derived from teaching city children to cultivate the soil.

Now, it seems to me more is taken for granted in these two justifications than the premises warrant. It may be true—and who should know better than the poet? that—

"To him who in the love of Nature holds
communion with her visible forms,
she speaks

▲ various language,"

but it cannot be affirmed that mere familiarity with the world of out-of-doors begets understanding. We remember Wordsworth's farmer—

"A primrose by a river's brim

▲ yellow primrose was to him
And nothing more."

We recall in our own experience many a farm worker who performed his daily tasks as perfunctorily and with as little intelligence as the most machine-like of factory operatives.

For the second reason, the number of persons gaining a livelihood by agricultural pursuits is not likely at any time in the future to be more than a third of the whole population—if this proportion is maintained—and any technical training for this class should be furnished by technical, not public schools.

We cannot justify our invasion of the schools, it seems to me, unless we squarely face the fact that we demand from the schools some things our fathers did not demand and, further, that in feeling about for the instruments whereby these things may be achieved, we have come upon the school garden.

1st—The older education aimed to fill the pupils' heads with authoritative facts. Our ideal is the awakening of the latent faculties of the child.

2d—The so-called learned professions were the goal of the course of study, though, of course, many fell by the wayside. The medieval tradition of learning being a matter of monks, was transplanted to our shores and appeared in Puritan guise as education, even popular education being a preparation for the ministry.

The modern idea is that the public school shall fit for citizenship, not for a vocation, at least not the elementary school, but shall so develop habits of doing, habits of thinking, that any vocation to which the gifts of the pupil justify his aspiring may be worthily filled. And further, as some educator has pointed out, that he may be

fitted to survive in a world of ever-changing conditions.

3d—The schools of the past could concern themselves with "book-learning" solely, safe in the consciousness that the pupils were being trained in all kinds of manual arts, were learning many kinds of useful knowledge in the home, in the fields, in the workshop. Save for the knowledge country children acquire on the farm, all this training has passed from the ken of school children. The various movements for the introduction of training in the manual arts into the schools have been inspired by the consciousness of this lack in the life of the modern child. Indeed, most emphatical or unsentimental is the testimony from some sources. Those who defend the employment of children in factories and workshops declare that the child needs industrial experience to fit him for his future industrial life. So far we can go. But more and more public opinion is demanding that child labor shall not be exploited for the benefit of the employer, but shall be conserved in school for the benefit of the child.

We see remarkable evidences of the changed attitude on the part of educational institutions toward the kind of scientific knowledge demanded by modern industry. We are told that Harvard this year admits applicants for the degree of bachelor of arts who offer an accepted requirement in place of Latin, and we read this very week that that high citadel of orthodox educational ideas, Oxford University itself, has established a chair of agricultural science in recognition of the fact recently discovered by Oxford, that agriculture is a science! Surely with this august precedent we may embark on any school garden adventure we will.

If, then, we can convince ourselves that the printed word is not the only thing with which schools may profitably concern themselves, we may set about finding out the best way to teach a manual art—our gardening art, for instance. Here we are confronted with the differences in surroundings of various schools. However, whether we begin with the school in the crowded city, the factory town, the village or the country district, there are common uses to which the garden may be put. It may be used to teach arithmetic, geography, drawing, writing, spelling. Learning the multiplication table by planting peas is a pleasant process. Finding the area of a triangle in which one is to grow radishes isn't a distasteful task. When flax and hemp, winter wheat and rye, tobacco and peanuts are grown under our own observation the pages of the geography take on a new interest.

Then, too, there can be no such medium for teaching reverence for the miracle of nature, the renewal of life, as any garden offers. The coming up of the seeds, the formation of the seeds, the needs of the plant, the kinship of the vegetable and animal world afford many opportunities for the intelligent and sympathetic teacher to influence the child profoundly.

Moral instruction need not be a dismal matter. All the preachments in the world cannot illuminate the subject of regard for the rights of others as does one half hour's work in a

school garden. Correct habits of work can be taught in any garden. "They can fool you in the school room," said one of the Boston masters to me, as we watched the children at work, "but out here in the garden we can see whether they know or not."

All these things can be taught with like profit in any school garden. In some other respects the methods employed may be adapted to various ends. The country school garden might serve as a model for the community. No one familiar with our country towns in New England will deny that such a garden attached to the country school might be of inestimable service in calling attention to new ways of doing things, new plants, new varieties, new ideas. Such I am told is the purpose of some of the school work in Tennessee, where one of the county school superintendents is striving to base the school work on agriculture, which is the prevailing industry of the community. This, of course, is the theory on which Hampton and Tuskegee Institutes have been so conspicuously successful.

Then, in the village school we can see opportunities for making the garden of economic and aesthetic value. Much of the work of the village improvement societies has centred about the village school. Its grounds have been planted, its school rooms adorned. Why should the school not offer a place for learning how best to plant a small garden? How to obtain a succession of blossoming flowers? How colors should be arranged? How to plant ugly spots with vines and shrubs?

Then the factory town. Here we find ourselves confronted with the bare modern industrial problem which underlies all our efforts to make this a better and more lovely world to live in. I shall never forget the effect produced upon me by the sight of the little gardens in Fall River at the time of the strike in the cotton mills two years ago. The Portuguese operatives retain their love of the cultivation of the soil in spite of their factory life, and they have a habit of clubbing together and hiring a tract of land on which they grow garden truck. At the time of my visit, in mid-summer, these Portuguese, although among the poorest paid of the operatives, were able to withstand the long strain of the strike with less suffering than the better paid workers who had no garden produce to fall back upon. However, the entire absence of violence in any form during this strike was doubtless largely due to the fact that the farmers of the surrounding country brought in food supplies almost daily to contribute to the townspeople in distress. This has always seemed to me a striking illustration of the imperative need for systematic efforts to get the industrial population into closer relation to the soil. The factory town often offers opportunities for individual garden plots, and many, if not most, of the factory operatives, are country bred. The school in such a town can contribute in large measure to the economic welfare—incidentally to the aesthetic benefit of the community by encouraging gardening efforts.

The city school garden meets needs unknown to suburban or rural districts. It is often the means of first

introducing the child to the life which sustains it. It opens a whole new world of interest to the city child. A life outside the city begins to seem within the realm of possibilities. The city school garden does not effect an exodus to the country, but it stimulates a movement to the suburbs which is of inestimable value. Then, too, in accordance with the tendency to use the school as a social centre for the neighborhood, we find the city school garden offering many avenues of approach to the heterogeneous population which make up a city district. Most city dwellers are country born or bred and the sight of growing things—the very stirring of the ground in the spring—holds unbounded interest for the passerby. I have gleaned many a valuable piece of information from the interested man over the fence.

Would say and glad to say that I am sold out of my pansy stock. Thanking you very kindly for the immense business your paper has alone favored us with,

Your truly,
WM. DOBBERTIN,
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April 29, 1907.

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Hardy Chrysanthemums, Large-flow- ering or Aster.....	\$3.00	\$25.00
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Fuchsias in variety,	\$3.00	\$1.00
Heliotrope,	2.50	1.00
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Rose Geranium,	2.00 fine plants	
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Cash must accompany order.

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10,000 Fern and 10,000 Seasonable Stock that must be sold. Send for BARGAIN LIST. ALL SEASONABLE.

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BOXWOOD EDGING—Very heavy bushy stock, 5 to 6 inches high, the finest we have ever handled, \$5.00 per 100; \$45.00 per 1000; special prices for large quantities.

HYDRANGEA PANICULATA GRANDIFLORA—Extra heavy bushy plants, 24 to 30 inches high, \$1.25 per dozen; \$10.00 per 100.

CLEMATIS PANICULATA—Extra heavy two year old roots, \$1.25 per dozen; \$8.00 per 100; \$70.00 per 1000. Strong one year old roots 75 cts. per dozen; \$5.00 per 100; \$40.00 per 1000.

CLEMATIS, Large Flowered Hybrid Varieties, such as Jackmani, Henryi, Duchess of Edinburgh, etc., in extra heavy two year old stock, \$3.00 per dozen; \$20.00 per 100.

AMPELOPSIS VEITCHII—Strong two year old plants \$1.50 per dozen; \$10.00 per 100; three year old plants \$2.00 per dozen; \$15 per 100.

HARDY ENGLISH IVIES—Strong plants in four inch pots, about 3 feet high, \$1.25 per dozen; \$10.00 per 100.

HARDY PERENNIAL PHLOX—All the popular standard varieties in strong one year old field grown plants, now in three inch pots, far superior to winter propagated stock as usually sent out. 75 cts. per dozen; \$5.00 per 100; \$40.00 per 1000.

HARDY PERENNIALS—The greatest assortment and largest stock in the country; write to us for anything you require in this line.

STRONG TWO YEAR OLD ROSES—We make a specialty of strong two year old Roses, field grown stock, which during the winter months has been potted up into 5 and 6 inch pots, stored in cold houses and is now breaking into growth nicely, just the kind of stock to sell to your retail customers for immediate planting.

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ENGLISH IVIES

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4 in. pots, Large Plants, \$12.00 per 100

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Cases of 500 pips \$7.50 Cases of 2000 pips \$28

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See our Greens Advertisement on page 603.

L. D. Telephone, Main 2818.

OBSERVATIONS ON THE CARNATION.

By Robt. M. Schultz, before the Morris Co. (N. J.) Gardeners and Florists' Society.

Having had but little experience with carnations, and trying to ascertain the best varieties to grow for the New York market, I canvassed the shops and noted the opinions of several wholesalers. We are now growing Mrs. Lawson, Enchantress, Queen and Victory, which to my mind is a good commercial combination, and, as I thought, the poor man's varieties, but one morning my wholesaler said to me: "What makes Enchantress go to sleep so quickly and why doesn't it hold its color? Why don't you grow a carnation like this?" holding up a bunch of Fair Maids. Looking them over carefully, I remarked the smallness of the flower, the color being very good. I compared them with Enchantress. I thought Enchantress would bring twice the amount he was getting for Fair Maid, but changed my mind when he pointed out the difference in keeping and shipping qualities, also its color. I saw both varieties that had been shipped two days previous by one grower; I saw them sold to a retailer, who preferred Fair Maid for the reasons mentioned above; I must admit that Enchantress did show up in poor shape, while Fair Maid was as fresh as if just picked. I just mention this incident to show you that size of flower does not count if it hasn't the color and the keeping and the shipping qualities. Three different persons spoke to me of this variety, and I believe it is worth a trial. They also mentioned Joost, Goethe, Abundance, Queen and several other varieties of the smaller types, and told me that these were the money-makers for Long Island and the Hudson growers.

Now the question arises: Is there more profit in growing these small varieties than in novelties and fancy kinds? Novelties and fancies embrace those kinds which are adapted to the private gardener and for show purposes, but I do not consider them profitable for a commercial grower. Would they, if grown more extensively for market, show a balance on the right side of the ledger? This is a question open for discussion, and I would like to see it threshed out and opinions given by growers more able than I to handle the subject. The ideal commercial carnation is the one that has size, color, stem, keeping and shipping qualities; produce one with these attributes and you will win favor with the commercial grower as well as the private gardener. This is the kind

the commercial man would like to handle, and the varieties that produce the greatest number of first-class flowers to the square foot.

Of the varieties in vogue there are some first-class ones to stick to, and of the new varieties of 1907 introduction we have several presented to us which we believe will make good. We have pinks, reds, and variegated forms to choose from, but as yet the commercial man has not found his ideal white, but from what I have seen and heard of late, I venture to say that the day is not far distant when we will see several good whites disseminated.

The commercial value of the carnation is being felt more every year, and many growers have and will discontinue growing roses, violets, etc., to take up and grow this divine flower. Those growers who can handle novelties and fancy kinds and produce the goods will no doubt be successful, but to the ordinary grower I say let novelties and fancies alone—stick to the ones from which you are sure to get the best results. A great mistake we growers make is to purchase very small lots of the new introductions that strike our fancy and grow them in an off-handed way in some remote corner, and when we see we have a good thing we say words to ourselves for not having purchased it in larger quantities and given it a better chance.

When a money maker is presented to you take the time to look it up; see it growing; satisfy yourself as to its commercial value; if it appears to you to be the right thing, stock a house with it, and if it proves a bread winner under your culture, you will have plenty stock to propagate from the following year.

ROSE-GROWING UNDER GLASS.

Extracts from paper read by David Falconer before the Morris County (N. J.) Gardeners' and Florists' Society.

I ought to be able to write, or say, something on this subject. But I found on trying the writing part that it was more difficult than the growing end.

I think a propagating house is a decided advantage over a part of a bench in the rose house; that is, of course, if you have it fixed so as to have control of the heat both top and bottom.

In the selection of wood we always select blind wood of a uniform hardness and do not put in any that have the eyes started.

I do not believe that flowering wood has any advantage over blind wood in regard to producing more flowers to a plant, or otherwise.

Young plants cannot be watched too

closely and must not have any luxuries, such as red spider, greenfly, getting pot-bound, etc.

A plant once checked in its growth will always show it when we get a dark spell of weather.

We dig up the sod in the spring; it seems to be sweeter and have more vitality to it than when composted in the fall.

Most soils that will grow good hay will grow good roses.

Our experience is decidedly in favor of old plants—that is, running them over a second year or even a third.

About the middle of July is a good time to begin drying to ripen the wood, to make it in condition for pruning. We give very little water for a few weeks until the plants nearly stop growing; then we trim out all the blind wood and cut back flowering wood to two or three eyes. Then take off about one-third of the soil, and fill up the beds with the same compost as we use for the young plants. Then we tie down the plant flat about a foot or so above the bed. For a few weeks they have to be syringed frequently to help them break.

We have tried the plan of not drying the plants, just pruning out a little blind wood and mulching them. By this method you get a few more flowers during the summer, but by the end of the year the other way is much ahead.

Do not allow the house to get hot with the ventilation nearly closed. I believe a close, stuffy atmosphere in a rose-house, especially in the morning, will create more mildew than any other cause.

Watering and syringing need a good deal of practice before a man can do it intelligently.

Syringe every bright day and just imagine that there is a red spider on every leaf when you are doing it.

I think there is nothing equal to the raised bench. You have got the roots under control as well as the tops and will produce more flowers in the winter season; besides, with the raised beds, you can get the heating pipes under them, which helps to dry out the beds when we have the short days.

I think a house from 20 to 28 ft. wide and about 200 ft. long is the most practical.

About the heating, a great deal depends on the location. For example, a house that has a rise of 6 ft. in 150 ft. would be difficult to install with a nice working steam system. Possibly an ideal heated house would be two-thirds hot water and one-third steam.

It would also be a safe combination in case of a break-down in either of the systems.

Successful and profitable rose growing is a problem of eternal vigilance, and the person who can pay the coal bills and many other bills, and get a good living out of the business is pretty much like the farmer, who, when asked how it was that everything was so prosperous on his farm, replied: "Sir, I understand my business and attend to it."

NEWS NOTES.

The Herman Schmidt Co., has leased the greenhouses of A. T. Roudebush at Oxford, O.

It is stated that Albert Linscott, Boston, landscape gardener, has failed with liabilities of \$1542.42; assets, none.

Wm. Miller & Son will demolish their old greenhouse established on Western avenue, Lynn, Mass., and will open a florist store in the retail district.

We learn with much regret of the disaster which befel the publication house of Arnaud & Co., Paris. On April 12 the building in which their business was conducted collapsed, killing and injuring many of the workmen. Most of their forms were destroyed, the composing room being in ruins. The editions of Mon Jardin for April 15, Villas et Maisons de Campagne for May 5 and Guide du Constructeur, the latter finished and ready to send out, were all lost.

PERSONAL.

Visitors in Boston: J. N. May, Summit, N. J.; C. B. Weathered, New York City; Winfried Rolker, New York.

Herbert M. Congdon has commenced work at the nursery of George Lowry, Pomfret Landing, Ct.

Bernard Kelly has taken a position as manager of the Hobart conservatories at Bridgewater, Mass.

We are happy to be able to report that the condition of August Loeber, travelling representative of Arthur T. Boddington, who has been critically ill at the Boston Emergency Hospital, is at present greatly improved, and the prospects are now promising for his recovery. This happy realization is, undoubtedly, due in great measure to the attentive care of his employers, Mr. Bunyard having spent the time since learning of his illness until last Saturday in Boston looking after and cheering him. It is an instance of rare unselfishness, and the reward is now in evidence.

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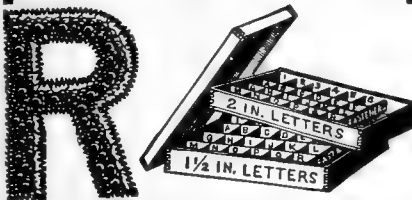
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	CHICAGO April 29		TWIN CITIES April 29		PHILA. April 29		BOSTON May 2	
ROSES								
Am. Beauty, Fan. & Sp.	40.00	to 50.00	25.00	to 30.00	25.00	to 30.00	20.00	to 25.00
" Extra.....	25.00	to 30.00	.....	to 20.00	18.00	to 20.00	15.00	to 20.00
" No. 1.....	15.00	to 20.00	15.00	to 18.00	12.00	to 15.00	8.00	to 10.00
" Lower grades.....	6.00	to 12.00	5.00	to 6.00	4.00	to 8.00	2.00	to 6.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	5.00	to 8.00	8.00	to 10.00	6.00	to 8.00
" " " Extra.....	4.00	to 6.00	4.00	to 6.00	3.00	to 6.00	3.00	to 4.00
" " " No. 1 & lw. gr.	2.00	to 4.00	2.00	to 3.00	3.00	to 4.00	1.00	to 2.00
Liberty, Richmond, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	10.00	to 15.00	8.00	to 12.00
" Lower grades.....	4.00	to 6.00	2.00	to 3.00	4.00	to 8.00	2.00	to 6.00
Chatenay, Morgan, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	8.00	to 10.00	4.00	to 6.00
" Lower grades.....	4.00	to 6.00	4.00	to 6.00	6.00	to 8.00	1.00	to 3.00
Killarney, Wellesley, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	8.00	to 10.00	6.00	to 8.00
" " Lower grades.....	4.00	to 6.00	6.00	to 8.00	3.00	to 5.00	1.00	to 4.00
CARNATIONS								
Fancy and Novelties.....	4.00	to 5.00	2.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Ordinary.....	2.00	to 3.00	.....	to 1.50	1.50	to 2.50	1.00	to 1.50
MISCELLANEOUS								
Sweet Peas.....	.75	to 1.00	.50	to .75	.75	to 1.00	.50	to 1.00
Cattleyas.....	50.00	to 75.00	50.00	to 75.00	50.00	to 60.00	35.00	to 50.00
Tulips, Daffodils.....	3.00	to 4.00	2.00	to	2.00	to 3.00	1.00	to 2.00
Lilies.....	12.00	to 15.00	12.50	to 15.00	8.00	to 10.00	6.00	to 8.00
Callas.....	.....	to .....	.....	to .....	.....	to	6.00	to 8.00
Lily of the Valley.....	3.00	to 4.00	.....	to 3.00	2.00	to 4.00	.50	to 3.00
Gardenias.....	35.00	to 50.00	5.00	to 7.50	15.00	to 20.00	10.00	to 25.00
Mignonette.....	4.00	to 8.00	.....	to	2.00	to 4.00	1.00	to 2.00
Lilacs (100 bunches).....	25.00	to 50.00	.....	to	50.00	to 75.00	25.00	to 50.00
Peonies.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Adiantum.....	.75	to 1.50	.....	to 1.00	1.50	to	1.00	to 1.50
Smilax.....	20.00	to 25.00	.....	to 35.00	15.00	to 20.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	to 50.00	35.00	to 50.00	to 50.00
" " & Spren. (100 bchs.).....	35.00	to 50.00	to 50.00	35.00	to 50.00	35.00	to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON May starts in with a very low dispirited flower market on her hands in this neighborhood. Our report may be looked upon as pessimistic but it cannot be overdrawn as to present conditions. There is an overloading on all sides and no avenue of escape in sight. Supplies of flowers in all varieties and grades are increased heavily over last week's report. Prices are weakened all down the line and if the reader of these lines is looking for bargains we have given him the tip as to where they may be found.

BUFFALO Business in the cut flower line was slow during the first part of the week, but made a good ending by cleaning up well on everything except roses, the supply of these being very heavy. Carnations were not too plentiful, and sold out daily. As for violets, lilies, lily of the valley and other stock there was plenty to be had, and all of good quality. Beauties sold considerably better than during the previous week.

COLUMBUS The cold weather has very much shortened the supply of cut stock, especially carnations. It most certainly does begin to look dubious for Memorial Day trade. We can always do a large business here then, if we can have plenty of out-door stock, but there cannot be anything counted upon this year in this line. Trade is very good for the season, and prices are especially so. Bulb stock is over, and violets at about an end. The seedsmen are of course fairly busy, but April has been the duller in years. It has on the other hand, been a splendid long season for the nurserymen.

INDIANAPOLIS The demand for cut flowers has taken on a little livelier aspect and stock generally is moving at figures that are considered fairly satisfactory. While flowers are not exactly scarce the market is cleaned up every day. The best grade of Beauties is in good demand as also are Richmond, Killarney, Bride and Bridesmaid roses. Carnations are rather scarce; all growers appear to be off crop at once. Bulbous stock is almost cleaned out; a few tulips and daffodils are still coming in. Sweet peas and lily of the valley are fairly abundant and find ready sale. We are

still in the grasp of freezing weather consequently all outside vegetation is at a standstill. Smilax continues scarce while about half of the common ferns shipped are worthless. Orders are coming for veranda boxes and other outside work, but in most instances customers are advised to wait for warmer weather.

NEW YORK The conditions this week favor the cheap buyer and bargains are plentiful for anyone who can handle a crate or two or a wagon load of flowers to advantage. The market is weak on all lines, receipts being much heavier than of late and demand lagging. Prices are on the decline with little prospect of any boost until Memorial Day comes along. Quality is uniformly excellent in roses and carnations.

PHILADELPHIA Last week found the market in fair shape, nothing startling, prices ruling low, almost everything plentiful particularly in the rose line. Carnations were a trifle more abundant than the previous week, still were in rather short supply. Lily of the valley did not move extremely well although of good quality. Violets are now done for the season although the quality keeps up fairly well. Sweet peas did not command as good prices as the week previous. Good hardy ferns are not nearly equal to the demand. There is a fair demand for greens.

TWIN CITIES The first three days of the past week business was very good. Friday it started to snow and at this writing, Sunday, April 28, it is still snowing and blowing. The past few days trade has been at a standstill practically nothing doing, and the trade buying nothing, so that when it does clear up, some old stock

will be moved both by the wholesaler and retailer. Roses and carnations are about all that is on the market. Bulbous stock and violets are about through and only small lots are on hand. Some of the best Richmonds and Killarneys so far this season are being cut by one of our larger growers.

BUSINESS CHANGES.

Halliday & Smith have purchased the Pesenecker greenhouses at Jersey City, N. J.

Charles Sherwood will soon occupy new quarters at 303 E. Fourth St., Waterloo, Ia.

W. J. Pearce has purchased the business of the Pontiac Floral Co., Pontiac, Mich.

On May first, Mrs. E. M. Krauss moved from 209 to 109 South High street, Columbus, Ohio. Mrs. Krause having been in the trade a long time, has a very nice cut-flower business. Her new location is in the best retail district.

The business of Treanor & Rettic, South Bend, Ind., has been taken over by the South Bend Floral Company, who will remodel and occupy the rooms at the Oliver Hotel now leased by the former concern, after June 1. Mr. Treanor goes with the new company; Mr. Rettic retains the greenhouses and conducts them in his own interest.

Mrs. H. D. Jones has opened a new establishment at 187 South High street, Columbus, Ohio, that will be known as the Columbus Floral Company. Mrs. Jones is the daughter of Gustave Drobisch, who is the oldest and one of the best known florists in the city. Both plants and cut-flowers will be handled, the former from her father's greenhouses, and the latter from Chicago dealers.



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	Last Half of Week ending Apr. 27 1907	First Half of Week beginning Apr. 29 1907		Last Half of Week ending Apr. 27 1907	First Half of Week beginning Apr. 29 1907
Roses			Carnations, Ordinary	1.50 to 3.00	1.00 to 2.00
Am. Beauty, fan and sp.	12.00 to 25.00	12.00 to 20.00	Sweet Peas	.20 to .75	.20 to .65
" extra	8.00 to 12.00	8.00 to 12.00	Cattleyas	25.00 to 50.00	25.00 to 40.00
" No. 1	5.00 to 8.00	5.00 to 8.00	Tulips, Daffodils	1.00 to 3.00	1.00 to 2.00
" Lower grades	2.00 to 4.00	1.00 to 3.00	Lilies	4.00 to 8.00	4.00 to 6.00
Bride, 'Maid, Golden Gate, fan & sp	6.00 to 8.00	5.00 to 6.00	Callas	4.00 to 6.00	4.00 to 6.00
" " " Extra	4.00 to 6.00	3.00 to 5.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
" " " No. 1 & lw. gr.	2.00 to 4.00	1.00 to 2.00	Gardenias	5.00 to 20.00	5.00 to 20.00
Liberty, Richmond, fancy & special	10.00 to 15.00	6.00 to 10.00	Nigronette	..... to	1.00 to 3.00
" lower grades	2.00 to 6.00	1.00 to 4.00	Lilacs (100 bunches)	35.00 to 75.00	35.00 to 75.00
Chatenay, Morgan, fancy and spec.	5.00 to 8.00	4.00 to 6.00	Peonies	..... to .....	..... to
" lower grades	1.50 to 3.00	1.00 to 3.00	Adiantum	.50 to 1.00	.50 to .75
Killarney, Wellesley, fan. and spec.	6.00 to 8.00	4.00 to 6.00	Smilax	12.00 to 16.00	12.00 to 16.00
" lower grades	2.00 to 4.00	1.00 to 3.00	Asparagus Plumosus, strings...	25.00 to 35.00	20.00 to 35.00
Carnations, Fancy and Novelties..	3.00 to 6.00	3.00 to 6.00	" " & Spre. (100 bchs.)	15.00 to 25.00	15.00 to 25.00

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3 x 4 x 20	\$4.00
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6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

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BELLEVILLE, ALA.

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Fresh cut Palmetto & Cypas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen

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CULTURE.

INCORPORATED.

The Lakeside Floral Co., Houghton,
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dent, J. G. Stone; vice-pres., C. V.
Seeber; sec. and treas., C. H. Moss;
manager, A. E. Lutey.

It is said that as a result of the
recent statement of Comptroller Metz
that the flower and news stands in
City Hall Park, New York, pay little
revenue to the city, an offer has been
made of \$3,200 a year rental for the
flower-stand privilege under the
stairs leading to the Brooklyn bridge,
for which \$300 is now paid.

Best Flowers

in the **Boston Market**

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And all kinds of Seasonable Flowers

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BUFFALO, N. Y.**

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NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000.

Case of 10,000, \$7.50.

Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

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Best Southern Smilax, \$3.50 and \$7 per case.
Headquarters for all FLORISTS' SUPPLIES. Wire Designs,
Cut Wire, Letters, Immortelles, Cypas Leaves, Wheat
Sheaves, Ribbons, Corrugated Boxes, etc.

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HENRY M. ROBINSON & CO., 15 Province St.,
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TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	April 29		April 29		April 29		April 29	
ROSES								
Am. Beauty, Fan, and Sp.	25.00	to 30.00	25.00	to 30.00	25.00	to 30.00	20.00	to 25.00
" Extra	20.00	to 25.00	15.00	to 20.00	20.00	to 25.00	12.50	to 15.00
" No. 1	15.00	to 20.00	10.00	to 15.00	15.00	to 20.00	5.00	to 8.00
" Lower grades	8.00	to 10.00	3.00	to 8.00	3.00	to 15.00	2.00	to 3.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	6.00	to 8.00	8.00	to 10.00	.....	to 10.00
" " Extra	5.00	to 6.00	5.00	to 6.00	6.00	to 8.00	6.00	to 8.00
" " No. 1 & lw. gr.	3.00	to 4.00	3.00	to 5.00	3.00	to 6.00	3.00	to 4.00
Liberty, Richmond, Fan, & Sp.	6.00	to 8.00	4.00	to 6.00	8.00	to 10.00	8.00	to 15.00
" Lower grades	3.00	to 4.00	3.00	to 4.00	3.00	to 8.00	3.00	to 6.00
Chatenay, Morgan, Fan, & Sp.	6.00	to 8.00	4.00	to 6.00	8.00	to 10.00	8.00	to 15.00
" Lower grades	3.00	to 4.00	3.00	to 4.00	4.00	to 8.00	3.00	to 6.00
Killarney, Wellesley, Fan, & Sp. .	6.00	to 8.00	4.00	to 6.00	8.00	to 10.00	8.00	to 12.00
" Lower grades	4.00	to 5.00	3.00	to 5.00	5.00	to 8.00	3.00	to 6.00
CARNATIONS								
Fancy and Novelties	2.00	to 3.00	2.00	to 3.00	2.50	to 3.00	3.00	to 4.00
Ordinary	1.00	to 2.00	1.00	to 2.00	1.50	to 2.00	1.00	to 2.00
MISCELLANEOUS								
Sweet Peas .....	.75	to 1.00	.75	to 1.00	.75	to 1.00	.50	to 1.50
Cattleyas .....	.....	.....	50.00	to .....	.....	.....	.....	.....
Tulips, Daffodils .....	.....	to 3.00	3.00	to 4.00	2.00	to 3.00	.....	.....
Lilies	10.00	to 12.00	15.00	to 20.00	8.00	to 12.00	8.00	to 12.50
Callas .....	.....	.....	.....	.....	.....	.....	6.00	to 10.00
Lily of the Valley	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Gardenias	6.00	to 15.00	.....	.....	.....	.....	.....	.....
Mignonette	1.00	to 3.00	6.00	to 10.00	2.00	to 3.00	2.00	to 4.00
Lilacs (100 bunches) .....	.....	.....	.....	.....	.....	.....	75.00	to 100.00
Peonies .....	.....	.....	.....	.....	.....	.....	8.00	to 10.00
Adiantum .....	.....	to 1.00	1.00	to 2.00	.50	to 1.00	1.00	to 1.50
Smilax	12.00	to 15.00	15.00	to 20.00	.....	to 20.00	15.00	to 20.00
Asparagus Plumosus, strings ..	40.00	to 50.00	20.00	to 30.00	40.00	to 50.00	20.00	to 50.00
" " " & Soren. (100 bchs.)	to 25.00	20.00	to 30.00	25.00	to 50.00	30.00	to 60.00

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J. B. Murdoch & Co.

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Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 28 State St., Boston.
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ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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ALTERNANTHERAS

Alternantheras, red and yellow, \$2 per 100. Jos. H. Cunningham, Delaware, Ohio.

AMPELOPSIS.

A. T. Boddington, 342 W. 14th St., New York.

ARAUCARIAS

A. Leuthy & Co., Roslindale, Mass.
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ASPARAGUS

C. Elsele,
11th and Roy Sts., Philadelphia, Pa.
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Albert M. Herr, Lancaster, Pa.
Asparagus Robustus.

Asparagus plumosus nanus and Sprengeri, 2 1-2-in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asp. Plumosus and Sprengeri, 2 inch pots, \$2 per 100. Jos. H. Cunningham, Delaware, O.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

ASPARAGUS SEED

S. S. Pennock-Meehan Co., Philadelphia.
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ASTERS.

Novae-Angliae Asters, strong, \$3.00 per 100; \$25.00 per 1000. Ellsworth Brown & Co., Seabrook, N. H.

AUCTION SALES

Bedding plants, trees, shrubs, conifers, bay trees, etc., every Tuesday and Friday. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

AZALEAS

A. Leuthy & Co., Roslindale, Mass.
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Azalea Amoena in large quantity, 25c., 50c., and \$1.00. Ask for trade list of choice hardy ornamental stock. Samuel C. Moon, Morrisville, Pa.

BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

BAY TREES—Continued.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

J. E. Felthousen, Schenectady, N. Y.
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C. Elsele, 11th and Roy Sts., Phila.
Spring Bedding Plants.

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R. Vincent, Jr., & Son, White Marsh, Md.
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John Ralph, Saratoga Springs, N. Y.
Latanla Borbonica.

Spring Bedding Plants in variety at auction every Tuesday and Friday during spring season. Purchases made on order. Mail your bid. N. F. McCarthy & Co., 84 Hawley St., Boston.

BEGONIAS

Wm. Elliott & Sons, 201 Fulton St., N. Y.
Tuberous Begonias.

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A. T. Boddington, 342 W. 14th St., New York.

Tuberous Begonias.

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Begonia Dew Drop, 2 1-2 in., \$1.50 per 100; \$15.00 per 1,000. S. W. Carey, Florist, Urbana, Ohio.

Begonia Gloire de Lorraine. Extra fine, 2 1-4 inch pot. Leaf cutting \$12 per 100; \$100 per 1000. Delivery May 1st. Julius Roehrs Co., Rutherford, N. J.

BOILERS

BOILERS. "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

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A. T. Boddington, 342 W. 14th St., N. Y.
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Rickards Bros., 37 East 19th St., New York.
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H. F. Michell Co., Philadelphia.

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Johnson Seed Co., 217 Market St., Phila.
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John Scheepers & Co., 4-6 Old Slip, N. Y.
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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

CALADIUMS

H. H. Berger & Co., 47 Barclay St., New York.

Caladium Esculentum, 7 to 9 in., \$2.50 per 100; 9 to 11 in., \$4.50 per 100. T. W. Wood & Sons, Seedsmen, Richmond, Virginia.

CANNAS

The Conard & Jones Co., West Grove, Pa.
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Cannas, 36 varieties, 2 cts. each started. Geo. O. Klein, Beard, Ky.

Cannas, 1000 each, Allemania, Austria, Burbank, \$1.00 per 100. O. B. Stevens, Shenandoah, Iowa.

16,000 fine potted Cannas, 20 leading sorts, \$4.00 per 100. Send for bargain list of all seasonable stock. Benj. Connel, West Grove, Pa.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.

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S. S. Skidelsky, 824 N. 24th St., Phila.
Rose Pink Enchantress.

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Chicago Carnation Co., Joliet, Ill.
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A. J. Guttman, 43 W. 28th St., New York.
Carnation Imperial and Pink Imperial.
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F. Dörner & Sons Co., Lafayette, Ind.
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N. Y. Cut Flower Co., 55-57 W. 26th St., New York. J. A. Millang, Mgr.
Carnation Winsor Blooms.
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Harlowarden Greenhouses, Greenport, N. Y.
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Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by Glass.

CEDAR BEAN POLES

1 1-2 inch butt, 5 ft. to 7 ft. long, \$10.00 per 1000; 2 inch butt, 8 ft. long, \$15.00 per 1000; 2 1-2 inch butt, 10 to 12 ft. long, \$22.50 per 1000. H. R. Akers, Chatsworth, N. J.

CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
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A. N. Pierson, Cromwell, Conn.
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Harlowarden Greenhouses, Greenport, New York.
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Rooted Cuttings, 35 cts., best sorts \$1.00 per 100, prepaid. Geo. O. Klein, Beard, Ky.

Rooted cuttings of October Frost and Fidelity Chrysanthemums. \$5.00 per 100. Frank Shearer & Son, Binghamton, N. Y.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

Chrysanthemums. White—Timothy Eaton, Estelle, White and Yellow Bounaffon, Alice Byron, Ivory. Pink—Glory of Pacific, Dr. Enguehard, Maud Dean. Yellow—Col. Appleton, Mrs. Whildin, Cremona, Robt. Halliday, Roi d'Italie. Rooted cuttings, \$2.00 per 100; \$15.00 per 1000. Cash with order. Wm. Swayne, Box 226, Kennett Square, Pa.

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COLEUS

Coleus, \$2 per 100. Jos. H. Cunningham, Delaware, O.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Evergreens of large size from 6 to 16 feet in variety frequently transplanted. Ask for list. Samuel C. Moon, Morrisville, Pa.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

Giant Hybrids transpl. ready for 2-in. and 3-in., \$3.50 100; \$30.00 1000. Plants grown of seed taken from the cream of my well known strain. Christ. Winterich, Cyclamen Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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J. K. Alexander, E. Bridgewater, Mass.

Dahlias, choice, 25 \$1; five pkts. vegetable or 19 flower seeds, 10 cents. Hyponeco, Westport, N. H.

Dahlias, fine, strong bulbs. Also cannas. Write for price list. O. B. Stevens, Shendoah, Iowa.

Dahlias, 150 varieties, including many European novelties, 3c. and up. What have you to exchange for dahlias? New list free. Adams Supply Co., Lowell, Mass.

We make them pay. So can you; the best for summer cutting—Kriemhilde, Catherine Duer, \$1.50 per doz., or \$10.00 per 100; Storm King, \$1.00 per doz.; \$8.00 per 100. Whole roots, field grown. W. C. Ward, Adams Street, Quincy, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Jullus Roehrs, Rutherford, N. J.
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Jerusalem Cherry Seedlings, 50 cts. 100 prepaid. Geo. O. Klein, Beard, Ky.

DRACAENAS

Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1637 Buckingham Place, Chicago.

FERNS

Baur Floral Co., Erie, Pa.
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Nephrolepis Whitmani.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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FIGUS

Baur Floral Co., Erie, Pa.
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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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FLORISTS SUPPLIES

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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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FLOWERS BY TELEGRAPH

Alex. McConnell, New York.
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Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
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Thos. Young, Jr., 41 W. 28th St., N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Young & Nugent, 42 W. 28th St., N. Y.
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W. H. Donohoe, 2 W. 29th St., New York.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.
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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Ave and 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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FLOWER POTS

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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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Say! Send to Feustel, for prices on Red flower pots. Geo. E. Feustel, Fairport, Ia.

FUCHSIAS

Baur Floral Co., Erie, Pa.
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GALAX

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broad way, Detroit, Mich.
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Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

GERANIUMS

R. Vincent, Jr., & Son, White Marsh, Md.
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J. E. Felthousen, Schenectady, N. Y.
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Wm. S. Herzog,
Morris Plains, N. J.
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GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.
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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

GLADIOLI. Groff's Hybrids, Gold Medal and Silver Trophy Strain, Crawford Strain. Farquhar Hybrid seedlings. JOHN H. UMPLEBY, Lake View, N. Y.

GLASS

Boston Plate & Window Glass Co., Boston.
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GLASS, High Grade. Double Thick Greenhouse Glass. Lard & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS. Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GLOXINIAS

W. W. Rawson & Co., 5 Union St., Boston.

GREENHOUSE BUILDING MATERIAL.

D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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In writing to Advertisers kindly mention Horticulture

GREENHOUSE BUILDING MATERIAL—Continued.

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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.

Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.
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Weathered Co., Box 789, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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GREENHOUSE CONSTRUCTION
GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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Economy Greenhouse Bracket.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HARDY FERNS AND SUPPLIES

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Fancy and Dagger Ferns.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
Fancy Ferns.
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E. A. Beaven, Evergreen, Ala.
Fadeless Sheet Moss.
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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Funkia variegata clumps, \$6.00 per 100.
H. Pladeck, Elmhurst, N. Y.

Yucca filamentosa, No. 1, 4c.; Iris Sibirica, 3c. Ellsworth Brown & Co., Seabrook, N. H.

Hemerocallis Thunbergii, 12 inch clumps, \$20 per 100.

Yucca filamentosa, strong plants with 50 leaves, \$20 per 100.
Hibiscus moscheutos, 3 yrs., \$4 per 100.
Yucca gloriosa, \$10 per 100. Ask for trade list of hardy nursery stock. Samuel C. Moon, Morrisville, Pa.

HARDY PLANTS

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HERBS

Tarragon roots, 10 cts. each, prepaid.
Geo. O. Klein, Beard, Ky.

HOLLYHOCKS

Hollyhocks. Large field-grown plants, \$3.00 per 100. Double in separate colors of red, white, pink, yellow and maroon; also the Allegheny strain. Send for catalogue of hollyhocks, dahlias and hardy plants. W. W. WILMORE, Box 382, Denver, Colo.

HONEYSUCKLES.

Golden Honeysuckles, 7c. Ellsworth Brown & Co., Seabrook, N. H.

HORSES

Useful work-horses for florists' spring work; also florists' delivery wagons, good as new. Edward Higgins, 1 West 28th St., New York.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.

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HOT WATER CIRCULATOR

W. W. Castle, 170 Summer St., Boston.
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HYDRANGEAS.

Hydrangea paniculata grandiflora, 3 ft., 3c. Ellsworth Brown & Co., Seabrook, N. H.

INSECTICIDES.

Nicotide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Louisville, Ky.
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IRISES

Yokohama Nursery Co., 31 Barclay St., New York.

IVIES.

English Ivy, 3 1/2 in., 3 to 5 ft., \$6.00 per 100. Cash. Benj. Connell, West Grove, Pa.

JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.

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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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LILY OF THE VALLEY

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Cold Storage.
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LIVISTONIAS

Livistonia Rotundifolia. Well leaved and clean, \$6, \$9, \$12 per doz. J. Roehrs Co., Rutherford, N. J.

LOBELIAS**NEW—NEW—NEW**

LOBELIA KATHLEEN MALLARD
Fine double flower; fine, strong 2 1/2-inch pot; \$5.00 per doz.
Quantity limited. Order at once.
J. Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Wm. Dobberty, 595 Joseph Ave., Rochester, N. Y.
Giant Pansy Plants.

Pansy plants; strong transplanted, \$10.00 per 1000. F. A. Baller, Bloomington, Ill.

Large, strong transplanted Pansy Plants. Dreer's Royal Exhibition and Vaughan's International, \$1.00 per 100; \$7.50 per 1,000; smaller transplanted, \$5.00 per 1,000. Send for sample and price list of other plants. Frank Shearer & Son, Binghamton, N. Y.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Yokohama Nursery Co., 31 Barclay St., New York.

Peonies, fine assortment, \$10.00 per 100. F. A. Baller, Bloomington, Ill.

Peonies, 1200 sorts. Greatest list anywhere. C. Betscher, Canal Dover, Ohio.

Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

Peonies. 200 strong undivided five year old clumps; pink sorts only, \$25 per 100. Ask for trade list of ornamental nursery stock. Samuel C. Moon, Morrisville, Pa.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks. Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

RAFFIA

Raffia, prime long fiber, sound and strong, ten cents the pound, nine dollars the hundred pounds; cash with order, please. A. Rolker & Sons, New York. P. O. Box 759.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Grafted Bride and Bridesmaid Roses.
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L. B. Coddington, Murray Hill, N. J.
XX Richmond Rose Plants.

A. T. Boddington, 342 W. 14th St., New York.
Climbing Roses.

Low-budded roses, No. 1, \$95.00; No. 1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

American Beauties, 2 1-2 in., \$8.00 per 100; \$75.00 per 1000. Chas. H. Totty, Madison, N. J.

Tuberose, dwarf excelsior pearl; first size, \$1.00 per 100; \$7.50 per 1000; second size, 60c. per 100; \$5.00 per 1000. T. W. Wood & Sons, Seedsmen, Richmond, Virginia.

Own root roses, 2 years. C. Ramblers. \$7.00; Dorothy Perkins, P. W. and Y. Ramblers, \$5.00; H. P. roses and Baby Ramblers, \$8.00 per 100. Gilbert Costich, Rochester, N. Y.

Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1-4 in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

The beautiful new pink rose, MISS KATE MOULTON is the queen of all pink roses. It's a winner and you should grow it. Price \$30.00 100; 500 \$125.00; 1000 \$200.00; 5000 and upwards \$175 per 1000. Minneapolis Floral Co., Minneapolis, Minn.

SALVIAS

C. Elsele.

11th and Roy Sts., Philadelphia, Pa.
Salvia Bonfire.

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Salvia Bonfire, flats once transplanted, 1c. each; 2 1-4 in. pots 2c.; 3000 now ready; order now; fine plants. Hammerschmidt & Clark, Medina, O.

Salvias, 2 1-2 in., \$1.50 per 100; \$15.00 per 1,000. Achyranthos, \$1.50 per 100; \$15.00 per 1,000. S. W. Carey, Florist, Urbana, Ohio.

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C. C. Morse & Co., 171-73 Clay St., San Francisco, Calif.
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Plumose seed, \$2.50 per 100. Jos. H. Cunningham, Delaware, O.

I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

Surplus Garden Peas—50 bu. Alaska, \$3.25 per bu.; 40 bu. First and Best, \$2.00 per bu. New crop northern Michigan grown; none better. W. F. Allen, Salisbury, Md.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston.
Pulverized Sheep Manure.
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SHEET MOSS

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SHRUBS.

Japanese Wistarias, 8c.; Berberis Thunbergii, 12 to 18 in., 3 1-2c.; Hibiscus, C. Eye and Pink, 3c.; Norway Spruce, 1 1-2 to 2 1-2 ft., 3c. Ellsworth Brown & Co., Seabrook, N. H.

1000 Large Shrubs 5 to 8 ft. assorted for \$150. Ask for trade list of ornamental nursery stock. Samuel C. Moon, Morrisville, Pa.

SMALL FRUIT PLANTS

Dewberry plants, Lucretia and Austin, \$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00 per 1000, \$25.00 per 5000; Turner red raspberry plants, \$6.00 per 1000, \$25.00 per 5000. W. F. Allen, Salisbury, Md.

SMILAX

Smilax seedlings, fall-sown, \$3.00 per 1000. F. A. Baller, Bloomington, Ill.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

In writing to Advertisers kindly mention Horticulture

SPIREA

Spirea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

Spirea, Van Houttei, 2 to 3 ft., 6c.; 18 to 24 in., 4c. Ellsworth Brown & Co., Seabrook, N. H.

STEAM TRAP

E. Hippard, Youngstown, O.

STRAWBERRY PLANTS

Geo. R. Schaubert, Ballston Lake, N. Y., Box 4.
Strawberry Saratoga.

Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

THERMOSTATS

Fire and Frost Alarm. Heat regulators. Brown Alarm Co., Denver, Colo.

VEGETABLE PLANTS

50,000 small horseradish sets, 25c. per 100; \$2.50 per 1000. S. J. McMichael, 142 Larkin St., Findlay, O.

500 to 1000 2 1/2 in. Pot Plants, Tomato. "The Comet." Strong and ready for shift. \$3.50 per 100. Cohanzle Carnation Greenhouses, New London, Conn.

50,000 large 4-year old Barrs Mammoth Asparagus roots, \$6.00 per 1000; \$25.00 per 5000. (500 will fill a sugar barrel.) Address W. F. Allen, Salisbury, Md.

Early cabbage, strong transplanted plants ready for the field. Early Jersey Wakefield, All Head Early and Succession. \$2.50 per 1,000. Send for our price list of Early Vegetable plants. Frank Shearer & Son, Market Gardeners, Binghamton, N. Y.

Now ready to ship, Jersey Wakefield, Winnigstadt, and Market Gardener's Early Cabbage, No. 1 stock, 15c. per 100, \$1.25 per 1000. Tomato plants, Dwarf Champion, Spark's Earliana, Lorillard King of the Earliest, 15c. per 100, \$1.25 per 1000. S. J. McMichael, 142 Larkins St., Findlay, O.

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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VENTILATING MACHINERY. New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1133 Broadway, N. Y.

VINCAS

Vinca minor (myrtle), \$20.00 and \$30.00 per 1,000. E. K. Moorey, Madeira, O.

10,000 vincas 2 1/2 in., fine, \$2.50 per 100; \$20.00 per 1000. R. Cuttings same, \$1.00 per 100; \$7.00 per 1000. Cash, please. Benj. Connell, West Grove, Pa.

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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 88 40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

All standard frames in stock. Special designs made to order in hurry-up time. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

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A DESIRABLE GIFT FOR YOUR EMPLOYEE.

There can be no more useful and appropriate present than a subscription to HORTICULTURE. The more he reads HORTICULTURE the better service he will render you. If you want to give five or more we will be glad to make a special discount, on application.

Other Useful Books.

The Dahlia. By L. K. Peacock. Price, 30 cents.

The American Carnation. C. W. Ward. Price, \$3.50.

Manual of the Trees of North America. C. S. Sargent. Price, \$6.00.

The First County Park System. F. W. Kelsey. Price, \$1.25.

The Horticulturist's Rule-Book. Bailey. Price, 75 cents.

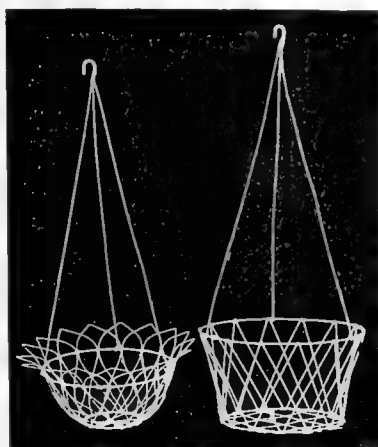
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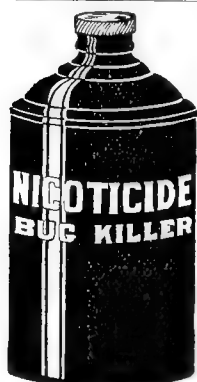
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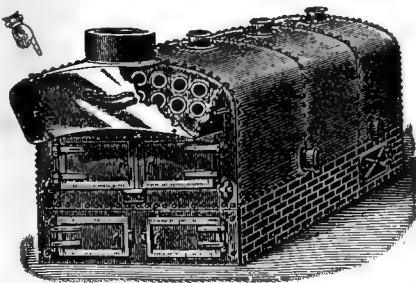
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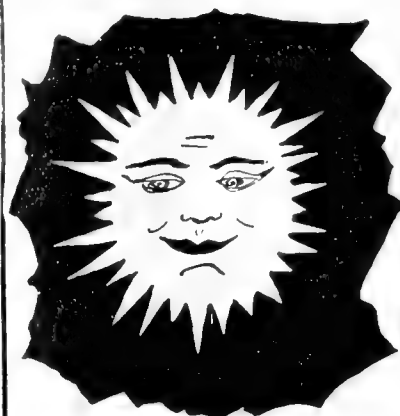
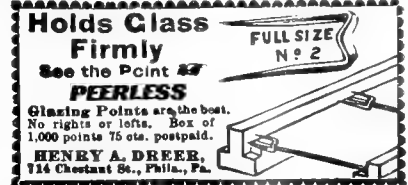
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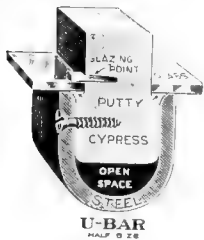
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HORTICULTURE

Vol. V.

MAY 11, 1907

No. 19



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2 1/4 in. Pots, \$10.00 per 100

3 1/2 in. Pots, 12.50 per 100

Ready to Pot On or Line Out in the Field

Thomas Roland NAHANT, MASS.

Alpine Flowers in a Cold Greenhouse

It seems, to say the least of it, most incongruous to write of alpine flowers (the very mention of which brings to mind mountain heights bejewelled with the fairest of nature's miniature plants) in a cold greenhouse, yet grossly artificial though this method of cultivation is. I know of none other that brings home to one the beauties of mountain flowers in the same degree. True, there is a finer spectacular effect when the plants

under the same roof such a cosmopolitan and attractive display as those whose home is in Alpine pastures, on mountain rocks and in hilltop woods.

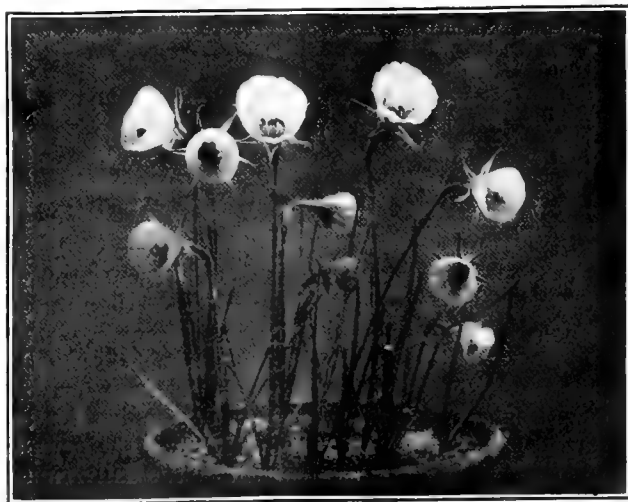
Some of the many beautiful plants that one can grow are *Narcissus minimus* (the smallest of all daffodils), *Narcissus bulbocodium*, of which I send you an illustration, *Narcissus cyclameneus*, crocuses in variety, *Cyclamen ibericum*, *Anemone blanda*, hepaticas, *Saxifraga oppositifolia*, *S. burseriana*, *S. Boydii*, scillas, *chionodoxa*, primulas, irises and many more. Truly a regal procession of flowers and one that continues throughout two or three months.

In attempting to grow these plants it is most important to have gritty or sandy soil through which the water can pass away readily. In fact to such plants as saxifrages and sedums thorough drainage is so essential that the pans or pots prepared for them must be half filled with bits of broken flower pots, or "corks" as they are commonly termed. The best time to attend to these alpiners in the matters of dividing and repotting is at this season when their flowers are past their best. So that anyone interested in the subject ought to make a start at once. After dividing those plants that require it, they should be placed for a few days in a frame that is shaded and kept close. In the course of a week or two they must have an abundance of air, in fact the best place for them during the summer months is in an open



Alpine House in the Royal Garden, Kew.

are grown in the rock garden out of doors and one is able to provide conditions, soils and situations, more nearly approaching those in which Nature nurses her alpine plants, yet in the cold greenhouse you have them closely under view, you miss none of the delicate beauty and delightful charm so characteristic of these flowers of the high mountains throughout the world. The accompanying illustration shows the Alpine House in the Royal Gardens, Kew, when in the height of its beauty in the month of April. It is, as may be seen, a small span roof greenhouse, and it is absolutely unheated; it is, in fact, a cold greenhouse such as thousands must possess who have gardens. Unheated greenhouses are often bare in the spring months of the year except for a few pots of tulips, hyacinths and other florists' flowers, yet by cultivating a selection of alpiners in pots and pans it may be transferred into a fairyland of blossom, a place of fresh spring beauty when the outdoor garden is a world of drab and gray. And most of these alpiners are delightfully accommodating when tenderly cared for even though their roots are confined within the narrow limits of prosaic garden pots and pans instead of rooting freely into Mother Earth on their native mountain heights. You may have representatives from widely separated countries, each and all in the rudest health; in fact I know of no other class of plant that provides



Narcissus bulbocodium.

frame, the pots or pans being plunged to the rims in a bed of ashes. While growing they require fairly copious supplies of water but during the winter when growth is practically at a standstill the watering can must be used with care and a nice discrimination.

Harry H. Thomas

HORTICULTURE

VOL. V

MAY 11, 1907

NO. 19

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; To Canada, \$1.50

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (12 times) 10 per cent.;

six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass. under the Act of Congress of March 3, 1879.

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The S. A. F. comes out into the lime light

The Society of American Florists and Ornamental Horticulturists wins its case and the United States Express Company must reduce to a reasonable rate the unjust, excessive, and extortionate charges on cut flower shipments which it has been demanding for the past year. All the country knows it now; the news of the florists' victory has been carried by the daily papers to every community in the land, and the florist and his business at once attain a prestige and importance in the eyes of the public and the business interests of the country never before accorded them. HORTICULTURE extends sincere congratulations.

Sowing the wind and reaping the whirlwind

"'Twas a famous victory" and it invests the year 1907 in the history of the S. A. F. with an enduring distinction. It was a triumph, not of money or strength of numbers but of simple justice and was won because the only object sought was "a square deal." Many observant

men think they see in this ruling by the Interstate Commerce Commission the beginning of troublous times for the express companies. Possibly. But in so far as the intent of the complainants in this S. A. F. case goes no such purpose was in view, for, in the main, the express companies of the country have not been inconsiderate or unfair in their dealings with the florist trade. Doubtless by this time Mr. Platt sees a new light and would, if it were possible, recall the curt rejoinders given and arrogant manner assumed by his office toward those who, in the interests of justice, appealed repeatedly, but in vain, for consideration at his hands before asking for intervention. If other troubles for the transportation companies follow in the wake of this case the responsibility for "stirring up the hornets' nest" rests on the shoulders of the president of the United States Express Company.

Your duty
to your national
society

That oft-repeated, flippant query, "What's the good of the charter?" Wonder if we shall ever be compelled to listen to it again. That famous product of eleven years' zealous, persistent effort seems to have furnished its own answer in a very practical manner in this struggle against a powerful corporation. How deplorable it seems that all those for whose benefit the S. A. F. exists, on whose profession the national charter confers so much dignity, are not lined up to uphold as one man an institution which has, under so meagre a support as it receives, been able to accomplish so much of practical good. It was brought out at the hearing before the Interstate Commerce Commission that the annual receipts of the United States Express Company for transportation of flowers from the "Chatham district" of New Jersey to New York City amounted to \$30,000 under the old schedule before the rates were doubled up. It would appear from this that the direct saving to the flower growing industry of this one district by the ruling of the Commission must reach thousands of dollars annually while the indirect advantage and moral effect is very far-reaching and cannot be easily computed. In urging every reader of these lines who is not already affiliated with the Society of American Florists and Ornamental Horticulturists to at once assume membership we feel that HORTICULTURE but voices what should be looked upon as a privilege and a duty by those to whom the appeal is made. The S. A. F. should not be placed in the position of a suppliant.

Society of American Florists and Ornamental Horticulturists.

Incorporated by Special Act of Congress. Charter signed by Wm. McKinley, President, March 4, 1901.

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WM. J. STEWART, 11 Hamilton Pl., Boston, Mass.

VICE-PRESIDENT,

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Next Convention will be held at Philadelphia, Pa., August 20 to 24, 1907.

THE S. A. F. vs. THE U. S. EXPRESS CO.

INTERSTATE COMMERCE COMMISSION UPHOLDS THE SOCIETY'S CLAIM—REDUCTION IN RATES IS ORDERED.

The Story of the Case.

Chapter I.

THE GRIEVANCE.

Extract From the Report of Secretary Wm. J. Stewart to the Society at Its Meeting in Dayton, Ohio, Aug. 21, 1906.

Acting on the complaint of members living in New Jersey an effort was made by your secretary and also by the chairman of the legislative committee to get from the manager of the U. S. Express Co. a statement as to the reasons for the increased transportation charges made since last May upon flower shipments from New Jersey points to New York city, but we were met with a very decided refusal to give any explanation. A second request did not even receive the courtesy of an answer. Your secretary, in the meantime, had been making some investigations as to our privileges under the new Interstate Commerce Act, and on August 7, 1906, wrote the following letter:

Boston, August, 7, 1906.

Mr. T. M. Jones, Mgr.,

U. S. Express Company,

39 Broadway, New York, N. Y.

Dear Sir:—Referring to my letter of May 11, 1906, which thus far remains unanswered, I beg to state that in view of the universal sentiment of protest on the part of flower growers who are members of our society and whose interests are affected by the advanced rates on flowers shipped from producers in your territory to the New York wholesale market, I deem it to be my duty to submit this matter to the Interstate Commerce Commission for investigation and adjustment as is my privilege under the provisions of Section 13 of the amended Interstate Commerce Act, unless I receive some assurance from you that the increased charges complained of will be given prompt reconsideration by your company.

It would give me much pleasure to be able to report to our society at its convention in Dayton, Ohio, August 21-24, that the United States Express Company had taken this question under advisement and hoped to be able to announce a rate which would be generally accepted as just and reasonable. Yours respectfully,

(Signed) WM. J. STEWART,

Secretary.

This letter shared the same fate as its predecessor, no acknowledgment having thus far been received. I believe we have a good case; I know that the Interstate Commerce Commission will give us a prompt and courteous hearing, and hope we shall be able to arrange for the appearance of our legislative committee with necessary witnesses before that body at an early date.

Chapter II.

THE HEARING.

From Horticulture, March 23, 1907.

The hearing on the complaint made by Secretary Stewart of the S. A. F. last year against the increased transportation rates on cut flowers exacted by the United States Express Company finally came up before the Interstate Commerce Commission at Washington, on Friday, March 15, and continued two days. Attorney Frank Lyon appeared for the complainants and testimony was given by Frank L. Moore of Chatham, N. J., L. M. Noe of Madison, R. M. Schultz of Madison, L. B. Coddington of Murray Hill, F. H. Treadly, New York, A. Farenwald of Roslyn, Pa., A. J. Guttman, New York, and President W. J. Stewart of the S. A. F. Cost of special delivery service in New York city and reduced receipts because of the wagon express which has operated in competition with them for several years were given by the attorney for Platt's corporation as the reason for the high charges which, it was shown, are almost double those charged for similar service by other express companies. The attorneys have now been given thirty days in which to file briefs based on the testimony given and the decision will then be given by the Commission.

Chapter III.

THE DECISION.

Associated Press Report, Washington, May 6, 1907.

The Interstate Commerce Commission has rendered its first opinion in a case involving the reasonableness of an express rate. The case was brought by the Society of American Florists, who asserted that the rate charged by the United States Express Company on cut flowers from New Jersey points to New York City was unreasonable, excessive, and unjust. This rate till July, 1906, was 50 cents per 100 pounds and at that time was raised to \$1 per 100 pounds. Commissioner Franklin Lane, who delivers the opinion of the commission, holds that the rate should be reduced to 60 cents per 100 pounds.

The express company defended its increase by asserting that the delivery service given cut flowers in New York was much more expensive than that given other articles, and that it could not increase its rate a sufficient amount to meet the expense of this special service without largely increasing the total rate, because of its contracts with the railroads, under which it was required to pay 45 per cent. of its gross receipts to them.

From the opinion of Commissioner Lane it appears "that the United States Express Company has contracts with the Delaware, Lackawanna & Western Railroad Company by which

the railroad company receives 45 per cent. of the total gross receipts of the express company; that the service rendered by the railroad company is no greater or different under the new rate of \$1 than it was under the old rate of 50 cents." The Central Railroad Company of New Jersey receives 43 per cent. and the Lehigh Valley Railroad Company 40 per cent. under the same conditions. Agents are also paid on a percentage basis.

The opinion continues: "Elaborate tables have been presented by the defendant tending to prove that the rate of 50 cents was unremunerative, owing to the percentage which it paid to the railroad, added to the percentage which it paid to its agents and the cost of delivery in New York. From these same figures it can also be adduced that the present rate of \$1 is unremunerative; and it may well be said that from an analysis of the charges made upon any single commodity or class of commodities transported by this company a similar result could be arrived at.

"In order to increase its business, the express company gives an especially prompt service to flower raisers. There is no evidence that this is not done by all express companies or that it does anything with respect to this traffic which transportation companies do not generally do as to certain classes of perishable freight. But, admitting that an extra return should be made over and above that received for the carrying of articles generally transported by express, no reason has been shown why the railroad charges and agents' pay should be doubled, excepting that the express company has to pay double the amount under its contracts to its agents and to the railroad company—a necessity or condition which we cannot recognize as controlling as to rates.

"The defense of this rate is not at all unlike that which a railroad might make were it to attempt to show that the value of the service which it renders was based upon contracts made with its bondholders by which the latter were entitled to receive a proportion of the proceeds of each individual rate, no matter how grossly excessive the resulting amount might be. Neither this commission nor the courts have given sanction to any such inequitable and unscientific method of rate adjustment.

"Such contracts are entirely between the parties themselves. They are not in the nature of fixed charges, because they are not fixed. They move upon a sliding scale, dependent entirely upon the rate. And it would be against the highest public policy to permit rates to be controlled by such contracts, because such practice must inevitably tend to promote the increase of rates on express service.

The railroads could, through such contracts, control the rates to be fixed by the express companies, and it would be to their interest always to increase rates so long as the traffic would move thereon, for thereby their portion of the receipts under the contract would be increased."

The order of the commission requires the United States Express Company to desist from charging the one-dollar rate after June 15, and directs it to put in a sixty-cent rate from Chatham and Somerville, N. J., to New York City; a seventy-two cent rate from Allentown, Penn., to New York City, and from Philadelphia, Hillside, and Dorranceton, Penn., a ninety-cent rate. The order also directs the reduction on rates on empty flower boxes from New York City to the points named to the merchandise rate of 50 cents per hundred pounds.

The question of reparation to injured shippers is held in abeyance subject to proofs to be taken.

REGULATING THE EXPRESS.

(Boston Herald Editorials.)

Express rates must come down, too. Imagine the feelings of the venerable Mr. Platt, whose company is operated upon for a starter. Is there to be no consideration for aged statesmen engaged in business on the side?

The Interstate Commerce Commission has rendered its first opinion in an express company case, and it is against the company. The defense rested on the contracts alleged to exist between itself and the railroad company carrying the goods, by the terms of which so large a part of the rate charged was taken by the railroad that the balance remaining to the express company was only a reasonable reward for the service. But the commission brushed this aside and fixed a lower rate, saying that extortionate contracts with the railroads were no excuse.

Thus we have another extension of federal authority, but a necessary and welcome one. Unless some board or commission is clothed with power to compel the express companies to conform their charges to reason it is hard to see where the ordinary man is to have any redress for the overcharges they intend to make. Their business, like telephoning, has become a necessity of modern life.

PERSONAL.

Jno. Ross, gardener on the Francis Peabody, Jr., estate, Hyde Park, Mass., sails for Scotland on May 14.

George Reed, for the past year in charge of the new park at Homestead, Pa., has resigned and accepted a position as assistant with H. Wesley at P. V. Thompson's, Uniontown, Pa.

B. S. Slinn, Jr., of New York, has been ordered to Arkansas Hot Springs by his physician, and will stay there for the next two months. Mr. Slinn has been a great sufferer from rheumatism for some time.

Fred Windmiller, now with the Cleveland Cut-Flower Company, was in Columbus, Ohio, last week visiting his old friends. For years Mr. Windmiller was in charge of the greenhouses here of the Livingston Seed Company.

ROSES.

Abstract of a Paper read before the Morris County Gardeners' and Florists' Society by Andrew Kennedy.

Roses started from cuttings are probably the best for small growers and private gardeners, but for large commercial plants I think the grafted stock is more easily grown and will yield larger profits.

In propagating from cuttings there are two points that I think cannot be mentioned too often; one is always, and at any cost, to propagate from clean, vigorous stock; and the other, which I consider equally important, is: don't hurry the rooting process.

Cuttings that are kept cool and moist and are ready for potting, that is have emitted roots a quarter inch long at the end of the fourth week after insertion, will invariably make better plants than those that are rooted in less time.

Potting and repotting as growth necessitates will be in order till June, when the plants should be benched. If, for two months after benching, the growing has been as nearly natural as possible the plants should be strong enough to begin cutting and forcing.

Cutting is very important at this stage of growth; the prospects for the whole year are often blighted by an indiscriminate use of the knife. Early cutting does not pay, for prices are usually low, and I do not hesitate to say if all buds are taken, pinching those on small wood and cutting bottom shoots with four to six eyes as soon as the buds show color, the future strength and productiveness of the plant will justify such treatment, for it is generally admitted that developing the buds is the greatest tax on the energy of the plant.

After cutting begins, syringing will generally furnish all the clear water necessary, and all other water used should be more or less enriched unless on some occasions when the bench would be too dry to receive manure water, when a light watering with clear water should be given first.

I consider liquid feeding by far the best during fall and winter, for then the surface of the soil may be scratched lightly and the whole bench will dry in less time than if covered with mulch, and if my observation is right a bench that can be dried and watered often during the winter will produce a more active growth than one kept continually wet. About February 1st, when the days get longer and brighter, the plants will readily take hold of a coat of mulch and it will act both as a feed and a covering for the roots that have reached the surface.

When the plants begin to break from the old wood it is time to start pruning, and by the time the new shoots have finished their foliage the greater part of the old blind wood should be cut away; thus during the spring months the plants will present almost as pleasing an appearance as they did in early fall.

John C. McCarthy, formerly with Geo. Lee, Beverly Farms, has taken Peter Ward's place at the Oliver Ames place, Pride's Crossing. Mr. Ward has taken the position of gardener for John Caswell, Pride's Crossing.

OBITUARY.

Hendrik van Waveren, of the firm of Waveren Brothers, bulb growers, died at Hillegom, Holland, on March 24, aged 96 years.

Frederick E. Shaw, for the past twelve years engaged in the florist business in Utica, N. Y., died on April 29, aged 56. A widow and two children survive him.

John L. Bingham, a plant and bulb grower of Oyster Bay, N. Y., died on April 30, aged 38 years. Mr. Bingham was tax collector of the town. His death was caused by pneumonia.

Col. Henry W. Wilson, a prominent and active member of the Massachusetts Horticultural Society, died at his home in South Boston, Mass., on May 7, aged 73 years.

Col. Wilson was identified with many prominent engineering projects, including the filling in of the Commonwealth Park flats, the water measurements on the Merrimack river, the sewage systems of Chelsea and the construction of the Metropolitan Street Railway. He was connected with the city engineer's office until 1863, when he resigned to take up private practice. He served for many years on the garden committee of the Massachusetts Horticultural Society. His companionable and cheery disposition brought him a host of friends among the horticultural fraternity.

FLORISTS' CLUB OF WASHINGTON.

The regular monthly meeting of the Florists' Club of Washington was held May 7th at Gude's Hall, with Pres. Bisset in the chair. The meeting was not so well attended as usual, owing to the inclemency of the weather. Particular attention was called to bogus advertisements which appear from time to time in the trade papers, and to which several parties have fallen victims. One member stated that he sent an order for chrysanthemums accompanied by cash. He waited several weeks before having any reply; finally he received a letter, saying that all the stock was exhausted and offering to send celery plants. It is hoped that some plan may be decided upon whereby the clubs can work in unison with the trade papers and suppress all such fraud.

There has been some slight confusion as to prizes won at the Rose Show occasioned by parties who made entries, sending their fee to Sec. Hammond, instead of to Sec. McCauley, when the exhibit was before the florists' club. Sec. McCauley was instructed to take up the matter with Sec. Hammond at once, so we may soon hope for a final adjustment of all matters pertaining thereto.

BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

THE IRIS.

(Read Before the Massachusetts Horticultural Society by J. Woodward Manning.)

While the genera of Iris are confined almost exclusively to the Northern Hemisphere ranging from the Atlas Mountains in northern Africa to a latitude of about fifty degrees north, the Iris family is closely represented in the tropics by the moraeas and maricas similar in effect but botanically distinct, while crocuses, freesias, tigridias and ixia are familiar genera and serve to represent the family in all parts of the temperate and tropic world.

The iris, or as popularly known, the fleur de lis, rainbow-flower or poor-man's orchid, etc., has more than 170 described pure species, of which about 100 have been cultivated at times by American horticulturists while somewhat more than 130 species are grown by English iris fanciers among which, however, a portion fail to combine sufficient distinction, beauty or ease of culture to warrant their extended use. While, however, perhaps less than a hundred species are to be recommended for cultivation in American or particularly New England gardens, this is but a fraction of the number of varieties which by selection or cross fertilization have been produced and contribute most advantageously to garden ornamentation.

The question of the best species, their peculiar requirements, if any, their ornamental and color effect, their better varieties and season of bloom are matters of interest to the New England flower lover, because there is much of neglected beauty in the class from lack of this knowledge and danger of disappointment from a misunderstanding of the limitations in color range. It is possible, too, to very materially extend the period of bloom as compared with the usual results attained in the flower garden.

Such irises as figure in horticultural uses are divided into two classes, those of bulbous nature and those with rhizomes, the latter varying in this character from the conspicuous surface rhizomes of the very familiar German iris to very narrow, inconspicuous, subterranean types of rhizomes in which the roots are the more conspicuous.

The bulbous irises are most familiarly known by the English and Spanish types, both of which have been very greatly improved by selection. The English Iris (*Iris xiphioides*), growing to a height of a foot and a half to two feet, bears two to three flowers to a stalk and varies in color from the purest white form of Mont Blanc through shades of lavender, blue and purple, of which Lord Palmerston with deep rich crimson purple falls and purple-claret standards is perhaps the best of the darker colored varieties. Many too are showily striped, flaked and blotched with shades of richer colors than the general tone of the flowers. The Spanish Iris (*Iris xiphium*) has taller and more conspicuous standards than the last and the markings are more clearly defined on the falls than is the case with the English Iris; possibly the improvement by selection has covered a longer period with the Spanish Iris. In any event such variety as the Thunderbolt is very noteworthy in its large comparative size of flower and grows two

feet or more high. The flowers are richly colored in bronze with a remarkably broad signal patch of yellow on each of the falls. The better varieties of this class are *Blanche Superba*, of purest white, *Golden Cup*, a very popular yellow, and *Cantab* of ultramarine blue with orange blotch and dark blue standards.

Both English and Spanish Iris are of easy garden culture, planted in autumn, the English Iris requiring the greater moisture of the two, the bulbs being planted at a depth of from three to five inches while a mulch is an advantage. There are a few other species of tall growing bulbous Irises, such as *Iris Juncea* and the rare *Boissierii*, but they probably are seldom imported and do not compare horticulturally with the selected varieties of the last two species.

The dwarf bulbous species are most familiarly represented by the *Iris reticulata*, a native of Palestine, varying somewhat in type but gorgeous in coloring with its brilliant shadings of purple and gold and a delicious violet fragrance. Flowering as it does naturally in March our climatic conditions require its cultivation in frames to protect the flowers from staining by dampness, though it is hardy and can be used very advantageously in rockeries or in protected sunny situations within easy access to the house. The Armenian Iris *Bakeriana* is even earlier, but less showy, though of rich markings of purple and orange in connection with its general blue tone. *I. Variata* is another species from Asia Minor, but more difficult to manage than the others and more tender.

Another class of bulbous species are known under the name of Juno Irises, natives of the Caucasus, Afghanistan and Northern India. They have comparatively large bulbs and require well drained situations and a thorough sun baking in summer to insure their continuance and future flowering. They have generally leafy stems with several flowers closely set to the stalk and combine all the ranges of coloring in the family. They closely follow the last group in their flowering period, but their inadaptability for cutting and the peculiar cultural conditions they demand without particular increase in their color range fails to promise much for their culture in American gardens except to the fancier. Of them *I. Rosenbachiana*, *Sindjarensis* and *Assyrica* are perhaps the best.

Of rhizomatous irises the bugbear class is that of the *Onocyclus* group, generally known as Cushion Irises. The most familiar species is the *Mourning Iris* or *Iris susiana*. All have very broad petals, and among them are the most remarkable forms in coloring. Many of the flowers are most delicately veined and reticulated generally with a darker color on a light background, and were they of easier growth they could not fail to be popular in every garden. They are from Persia, Armenia and Afghanistan and naturally require hard sun baking after their short blooming season. They can hardly be called hardy, and in any event require such special cultural attention that they cannot be recommended. The wonderfully full flowers with their peculiar markings such as shown in *I. paradoxa*, *Iberica*

and the so-called (Prince of Irises) *I. Gatesi* makes them particularly interesting and tantalizing.

Closely allied to the *Onocyclus* group is another popularly known as the *Regelia* section, in which the petals are narrower and the plants are hardier and considerably more easily cultivated, but of even greater importance is the fact that they hybridize freely with the *Onocyclus* group and the progeny are comparatively easily cultivated, increase rapidly and are of prolific blooming quality. Mr. C. G. van Tubergen, Jr., of Haarlem, Holland, has been largely responsible for this group of so-called *Regelio-Cyclus* Irises, obtaining them by crossing *Iris Korolkowii* and its varieties; *I. Leichtlini*, *I. Sara* and *I. Suwarowi* with various species of the *Onocyclus* group. Such resulting progeny as *Psyche*, lavender beautifully striped with rich purple with darker toned falls, *Charon*, rich coppery purple with deep purple markings and *Iphigenia* intermediate in its color range show something of the result, while the shape of the flowers is a happy medium between the two groups.

Probably this group has not been extensively cultivated in this country as yet, and we will look forward with deep interest to the results.

(To be continued.)

HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items:

BUFFALO, N. Y.—E. C. Brucker, 385-87 Ellicott St.
CLEVELAND, OHIO—A. L. Hutchins, 2220 East 74th St.
COLUMBUS, OHIO—M. B. Faxon, 246 Oak St.
CINCINNATI, OHIO—Frank W. Ball, 31 East 3d St.
DETROIT, MICH.—Frank Danzer, 1487 15th St.
INDIANAPOLIS, IND.—George B. Wieland, 1610 N. Illinois St.
LOUISVILLE, KY.—F. L. Schulz, Jr., 1325 Cherokee Rd.
MONTREAL.—William Cooper, 338 St. James St.
NEWPORT, R. I.—David McIntosh, Ledge Road.
PHILADELPHIA, PA.—George C. Watson, Dobson Bldg., 9th and Market Sts.
PITTSBURG, PA.—James Hutchinson, corner Dunmoyle and S. Negley Aves.
TWIN CITIES—John A. May, 163 Iglehart St., St. Paul, Minn.
TOLEDO, OHIO—J. L. Schiller, 829 Prouty Ave.

BUSINESS CHANGES.

Gunther Bros. have removed to their new wholesale store on West 28th street, New York city.

The Mountain Park Greenhouse is the name under which H. W. Girton of Ridgeway, Pa., will do business hereafter at 132 Main street. He has purchased the stock of W. S. Smathers.

Rene Brower, formerly of the firm of W. H. Brower's Sons, New York city, has opened a retail florist business in the Coogan Building, where are located the flower market and a number of wholesale firms.

You'll find something worth reading on every page of this paper.

NEWS OF THE CLUBS AND SOCIETIES

MASSACHUSETTS HORTICULTURAL SOCIETY.

Saturday, May 4, was the date set for the annual May exhibition, but so unpropitious has the spring weather been that much material intended for this show was not in readiness, and while the display was excellent in every particular, it was much smaller than usual, and it was thought best to set a date two weeks later for a supplementary show. Martin Sullivan, gardener for William Whitman, was the largest contributor. His fancy pelargoniums were very fine. Darwin tulips and narcissi were also shown extensively by him. A specimen *Rhododendron formosum* from J. L. Smith, gardener to Mrs. A. W. Blake, was a centre of attraction, as were some superb branches of Marechal Niel roses from George Page, gardener to Mrs. Fred Ayer, one of the latter bearing twenty-nine flowers. In the orchid section, J. T. Butterworth opened the eyes of the visitors with a specimen *Cattleya Mossiae* bearing fifty-nine flowers; the same plant produced forty-four blooms last year. The display of spring flowering bulbs and other seasonable garden material from Harvard Botanic Garden, W. N. Craig, W. J. Clemson and others was excellent. Prizes were awarded as follows:

Pelargoniums—First, William Whitman. Tulips—First, William Whitman; second, W. J. Clemson.
Darwin collection of twelve named varieties, one twelve-inch pan of each—First, William Whitman.
Hardy Narcissuses, collection—First, Langwater Gardens; second, William Whitman; third, W. J. Clemson.
Pansies—First, Mrs. A. W. Blake; second, Mrs. E. M. Gill.
Silver Medal—J. T. Butterworth, for superior cultivation of *Cattleya Mossiae*.
First Class Certificate of Merit—George Page, gardener to Mrs. Frederick Ayer, for superior cultivation of Marechal Niel roses.
Honorable Mention—Harvard Botanic Garden, New Primula, P. Poissoni; Mrs. Frederick Ayer, *Acacia pulchella*; William Whitman, superior cultivation of *Cattleya Skinnerii*.
Asparagus—First, Edwin Parker.
Beets—First, A. E. Hartshorn.
Cucumbers—First, Geo. D. Moore.
Dandelions—First, J. B. Shurtleff, Jr.; second, Mrs. Frederick Ayer; third, A. E. Hartshorn.
Lettuce—First, G. D. Moore; second, Mrs. A. W. Blake; third, A. E. Hartshorn.
Parsley—First, W. J. Clemson; second, A. E. Hartshorn.
Radishes—First, Ed. Parker; second, A. E. Hartshorn; third, G. D. Moore.
Rhubarb—First, G. D. Moore; second, Alice A. Warburton; third, Ed. Parker.
Collection of Vegetables—First, Ed. Parker.

The Committee on Prizes and Exhibitions of the Massachusetts Horticultural Society has issued the following list of additional special prizes for the Chrysanthemum Show of November 8-10, 1907:

No. 469. For the best arranged table of cut Chrysanthemum blooms; all classes admissible; tables to be 8x6 feet; for commercial growers only; four prizes \$40, \$30, \$20, \$10.
No. 470. For the best decorative arrangement of cut Chrysanthemums, with autumn foliage or other suitable material, filling a table 8x6 feet; all classes admissible; for retail store florists only; four prizes \$40, \$30, \$20, \$10.
No. 471. For the best vase of one hundred Chrysanthemum blooms, of one or more varieties, in the Society's large china vases; tasteful arrangement will be con-

sidered; offered by George R. White; four prizes \$40, \$30, \$20, \$10.

No. 472. For the best vase of fifty Roses, of any one variety; three prizes; (first prize offered by Francis Skinner) \$50, \$30, \$20.

No. 473. For the best six vases of Carnations, fifty blooms each, of any one variety; four prizes \$40, \$30, \$20, \$10.

No. 474. For the best made-up centerpiece of growing plants, suitable for a table of eight covers; offered by the Gardeners' and Florists' Club of Boston; three prizes \$12, \$8, \$5.

No. 475. For the most tastefully decorated table of Fruits, 8x6 feet; autumn foliage and berries may be used to produce a pleasing effect, and the fruits may be either native or foreign; four prizes \$40, \$30, \$20, \$10.

No. 476. For the best collection of Vegetables of fifteen varieties, not more than two kinds of any variety admissible; the number of specimens of each variety must be the same as given in the annexed scale of points; tasteful arrangement will be considered; to assist in the decoration of the collection parsley or other vegetable greenery may be used; mere size of specimens shown will not necessarily entitle the exhibitor to the highest award; for private gardeners only; four prizes; first prize a Silver Cup valued at \$75, offered by R. & J. Farquhar & Co.; the Society offers also second, third, and fourth prize \$25, \$15, \$10.

On account of the backwardness of the season the date of the Rhododendron Exhibition scheduled for June 1st is changed to Saturday, June 8th.

WM. P. RICH, Secretary.

TARRYTOWN HORTICULTURAL SOCIETY.

The monthly meeting of the Tarrytown Horticultural Society was held on April 30, president Howard Nichols in the chair. Four magnificent specimens of *calceolaria* in 6-inch pots were exhibited by Mr. Atkinson, gardener to Henry Siegel, Mamaroneck, N. Y., who was awarded a cultural certificate for same. He was also awarded a cultural certificate for two pelargoniums Robt. Allen, gardener to E. C. Benedict, Greenwich, Ct.; was awarded a cultural certificate for a cluster of tomato Princess of Wales, there being 23 good sized fruits on the cluster. The monthly prize for two foliage plants was awarded to D. McFarlane for *dracaena* Lord Wolseley, and *croton* Lady Zeland. Henry Siegel offers a silver cup for the best table of ferns and flowering plants at the fall show. The society voted to donate \$25.00 towards the fund for the proposed new hospital, and to make a charge of 25 cents admission to the June show, the proceeds to be turned over to the hospital fund; also to lay out and decorate the grounds around the new hospital exclusive of the rough grading.

D. McFARLANE, Cor. Secy.

NEW YORK FLORISTS' CLUB.

Members Take Notice.

Through unforeseen circumstances we will be unable to meet in the Grand Opera House building, our usual meeting place. The next meeting will be held in the Hotel Earlington, 55 West 27th street, between 6th avenue and Broadway, at 7.30 p. m., Monday, May 13th. S. S. Skidelsky will deliver an address on the coming National Flower Show in Chicago.

JOHN YOUNG, Secretary.

NORTH SHORE HORTICULTURAL SOCIETY.

This society held its regular meeting in Manchester on May 3rd, President McGregor occupying the chair. P. R. Sanborn gave a most interesting talk on the Fundamentals of Gardening, saying in part as follows:

The fundamentals of gardening are embodied in a thorough understanding of the natural elements which produce the living plant and which the gardener or farmer must realize in order to bring the plant or crop to maturity, exactly as the manufacturer must understand the qualities and condition of the raw material which passes through his manufacturing plant in order to produce the finished product.

The raw materials which form the basis of all plant life are soil, water and air. The soil is composed of particles which form into kernels and these kernels hold the water not as a sponge but as a film around each kernel where it is held by capillary attraction, the same unseen force that draws the oil through the wick of a lamp. In cultivated soil nearly 50 per cent. of the volume is taken up by air and water.

According to experiments made by Prof. F. H. King actual solid soil grains occupy less than one-half the space in a given bulk of soil. In coarse, sandy soils the particles are larger and there is less vacant space, and what space there is exists as larger channels through which air and water move more freely and rapidly. At a depth of four feet the vacant space is about one-third that of the first foot or surface soil; in heavy clay soil half the volume was water or air space. Ground may easily become too compact for the best growth of plants, as is the case below the first foot or so of cultivated ground. A cubic foot of solid soil grains will weigh 165.4 lbs.; a cubic foot of fertile clay loam at the surface will weigh but 79 lbs., less than half of 165.4 lbs. It must be therefore that the actual solid soil grains occupy less than one-half the space in a given bulk of soil. It is the business of the farmer or gardener, by cultivation to keep the pore space between the soil particles up to nearly 50 per cent. of the total volume of the soil. This fact forms the fundamental reason why we must plough or fork over our gardens, keeping them porous and admit free circulation of air, without which their fertility could not be preserved.

If, as sometimes happens, the water is in excess and fills the air-spaces, crops cannot grow for want of air and such land must be drained in order to bring it to fertility. The average rainfall for the eastern States from May to October, is over 2000 tons to the acre; enough for all purposes if evenly distributed, which is seldom the case, and it often happens that the rainfall is far short of the needs of the growing crops, to say nothing of the immense amount drawn from the soil by evaporation.

Prof. Smith tells of an experiment where the loss by evaporation from a square foot of loam was nine pounds in seven days, equal to a loss of 200 tons per acre. Ground that is compact

at the surface loses more by evaporation than ground which is loose and frequently stirred by the hoe or cultivator. Early plowing or spading is of the utmost importance both to the land and to him who tills it. The continuity of the soil particles and kernels is broken up, the evaporation of water stored in the lower layers of the soil is prevented, channels are opened for the free ingress of air, thus fertilizing from above and holding in restraint the water beneath. The two combined are finally absorbed by the rootlets of the growing plant. Other things being equal we have the right to expect and receive a bountiful harvest.

The cultivation of the soil around the growing crops is another work of great importance. A heavy shower followed by dry winds will form a crust on the surface; this is caused by the soil particles or kernels becoming united by compaction; evaporation sets in and unless the cultivator or some other implement is set in motion at once the crop will soon be in a worse condition than it was before the rain, owing to the drain upon the supply stored below. There are many other fundamentals beside soil, air and water. Water as a solvent, soil-temperatures, formation of humus, getting nitrogen into the soil, nitrification of manures and many others.

After a brief discussion a vote of thanks was extended to Mr. Sanborn for his able paper. WILLIAM TILL.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTI- CULTURISTS.

Department of Plant Registration.

John A. Macrae, Providence, R. I., on February 6, submitted for registration, *chrysanthemum* Golden Dome, sport of Yellow Eaton 1904, form of Bonnaffon, color deeper yellow, but same characteristics of growth, habit and size of flower, darker foliage than parent, height between 3 1-2 and 4 feet.

A. C. Zvolanek, Bound Brook, N. J., on February 28, submitted the following new Christmas flowering sweet peas, Le Marquis, seedling from Wm. J. Stewart x Gladys Unwin, violet blue; Mrs. George Lewis, seedling from Watching x Gladys Unwin, white; Mrs. A. Zvolanek, seedling from Helen Pierce x Christmas White, white, blue notched; Mrs. Chas. H. Totty, seedling from Mrs. Alexander Wallace and light-blue unnamed seedling, sky blue.

Alexander Montgomery, Waban Rose Conservatory, Natick, Mass., on March 18, submitted for registration, rose White Killarney, sport from Killarney, with same form, habit and more petalage, color clear white.

P. J. HAUSWIRTH, Sec.

Ladies' Auxiliary.

As the work of the Ladies' Auxiliary progresses I find many of the 800 circulars sent out Nov. 8, '06, found a resting place in the waste-basket, as I have been informed by some of the members of the S. A. F. Therefore, through the trade papers, I invite all ladies who are in the trade, directly or indirectly, to join the Auxiliary and meet with us at Philadelphia next summer.

MRS. CHAS. H. MAYNARD, Sec.
219 Horton Ave., Detroit, Mich.

FLORISTS' CLUB OF PHILADELPHIA.

The May meeting of the Florists' Club of Philadelphia was one of the best attended since President Samuel S. Pennock took hold, and that is saying a good deal. The attendance was large and the enthusiasm inspiring. Convention matters took up a large amount of the time, and according to all indications there will be a good time in Philadelphia for everybody next August. A committee of thirty, to be sub-divided into various sections for the management of the convention, was ordered and was held under advisement by the chairman. Another prominent feature was the address by J. Otto Thilow of Dreer's on the Equipment and Organization of a Modern Horticultural Establishment, which appears in full on another page of this paper. Joseph Heacock voiced the sentiment of the members on the large attendance and the enthusiasm which has never been better. Godfrey Aschmann was elected a member of the club after having held aloof for about twenty years, and many other ought-to-have-beens were also put through. The finance committee reported progress and hope to have even a better showing by next month. An excellent exhibit of fancy pelargoniums was staged by Samuel Batchelor, and a fine lot of *Cattleya gigas* Sanderiana by Alphonse Pericat. David Rust was elected secretary to fill the unexpired term of Edwin Lonsdale, resigned. The subject for next meeting will be announced later.

NEW JERSEY HORTICULTURAL SOCIETY.

The regular meeting and floral display of this society took place on May 3. Orchids were in force. Beautiful specimens were exhibited by Julius Roehrs Co. and J. A. Manda. The latter showed *Cattleya* William Murray, hybrid of *C. Lawrenceianum* x *C. Mendelii*, for the first time in this country; George C. Graves, Edwin Thomas gardener, John Crosby Brown, Peter Duff gardener, Stewart Dickson, Albert Lerson gardener, Charles Hathaway, Max Schneider gardener, also had attractive exhibits. The Colgates, Wm. Reid gardener, were awarded 96 points for specimen *Medinilla magnifica* with 25 blooms. John White had a fine collection of pansy blooms. Letters were read from Chas. Munn, in recognition of the resolutions of condolence received from the society, Georgia Horticultural Society, American Civic Association, and Centennial Association of the Oranges, seeking active co-operation with the society. Reports were made upon the guarantee fund for the fall show; June 7 was selected for the rose show and November 6 and 7 for the fall show.

DETROIT FLORISTS' CLUB.

Wednesday, May 2nd, 1907, was another of those successful evenings which repeat themselves rather frequently with the Detroit Florist Club. The stereopticon lecture on Home Gardens and Backyard Improvements by E. A. Thomas of Dayton, O., was delivered in Harmonie Hall and the general public was invited. Fortunately that crowd of people which is always looking for something free was absent

so that the very appreciative audience was composed of that class which will carry out the suggestions offered during this lecture.

All who were at the last S. A. F. convention know about this lecture, still it seems to remain for the Detroit Club to carry the laurel of disseminating the vast amount of knowledge contained in that lecture to the general public.

The same opportunity which the Detroit Florist Club had is open to others. It is one of the cheapest and undoubtedly the most effective way of educating the general public and therein lies one of the foundations of the existence of florists' clubs. If we individually or collectively do not do everything in our power to educate the public to the use and love of flowers and plants we do not deserve to affiliate with florists' clubs, nor have clubs who do not look after this line of working reason to exist.

FRANK DANZER.

NEW LONDON HORTICULTURAL SOCIETY.

The New London Horticultural Society held its meeting in Norwich, Ct., on April 29. A practical talk on hybrid roses by President Head and an interesting series of views explained by O. E. Ryther showing how back yards and unsightly places might be beautified by the use of climbing plants, were features of the evening. Among the exhibits were handsome specimens of hybrid tea and climbing roses and Marshall strawberries from the Plant greenhouses, and Bride roses and sweet peas from Mrs. Frank A. Roath.

CLUBS AND SOCIETY NOTES.

The April report of the Home Culture Club of Northampton, Mass., shows a very general and enthusiastic interest in beautifying the homes of that city.

At the first regular meeting of the San Diego (Cal.) Floral Association held on April 19, it was decided to hold a flower show on May 29. The society starts with a membership of over one hundred, and it is thought that five hundred names will be enrolled by the date of the annual meeting, June 10.

The Horticultural Society of Chicago has under consideration an exhibition in September which shall include not only the garden flowers which are then at their best, but vegetables grown under glass and outside. Supt. Warder of Lincoln Park has been appointed chairman of a committee whose object shall be to enlist the substantial support of the owners of large estates.

The Albany Florists' Club, Albany, N. Y., held its first annual banquet at the Hampton on April 29, and the temporary organization formed last summer became a permanent organization with officers elected as follows: Pres., W. C. King; vice-pres., E. F. Meany, F. M. Briare; treas., W. C. Kurth; sec., T. F. Tracy. Thirty-four florists of Albany and vicinity were present. Short addresses were made by Fred A. Danker, Fred Goldring, W. C. Gloechner and others. J. J. Karens of Philadelphia was a visitor.

A Plea for the Picturesque in Landscape Gardening

(A paper read before the Gardener's and Florists' Club of Boston by B. K. Howard.)

(Continued from page 593)

In regard to the different characters shown in different trees: they are classified by Downing under three heads. The round-headed trees like oaks, chestnuts, ash, beech, hickory, elms, and many others; the pyramidal or oblong, Lombardy poplar, cypress, cedars, the spiry-topped such as larch, pine and spruce, with horizontal limbs and straight leading stems. The trees of this latter class are nearly all evergreen, with dark foliage and where many of them are together they make a dark spot in the landscape which is sometimes good if not too isolated. The white pines are the best of this class. Of the oblong group, the Lombardy poplar is the most characteristic. In some parts of the middle west where scarcely any kinds of trees except those of the poplar family will thrive, an occasional group or broken

ever been proven that it does. It seems to me that the beauty of the tree should not be sacrificed at any cost. If a tree is going to die let it, but do not maim and disfigure it for a few added years of crippled existence. If it is considered that a tree has too many limbs to support, it seems to me a much better relief for that would be to cut off such limbs as can best be spared, right down to the trunk of the tree. That will make the contour more irregular and will often add to the picturesque appearance of the tree. Some trees, like horse chestnut, maples and lindens, are too symmetrical for the picturesque plantation and it would often be well to break into them in this way as it would make the contours more interesting from an artistic point of view.

White oaks are very handsome and

almost to the ground, then turn up in graceful curves. The summer foliage is a light and airy green and turns a deep brownish purple in the fall. The lime or linden tree is rather too symmetrical for picturesque planting but makes a fine avenue tree. Beech trees look best in a dense wood of their own kind, and they are quite apt to grow that way, often covering large areas, to the exclusion of all other kinds. The bark is smooth and grey and in a shady grove looks cool and inviting. They often retain a portion of their leaves, though dried and withered, through the winter and when the sunlight strikes them they lend a charming bit of color to the dreary landscape. The hornbeam belongs to the beech family and is a twisted and picturesque tree and makes an interesting edge to a forest. The Lombardy poplars are fine to use in connection with architecture. They are excellent to break the monotony of a high wall or terrace. As they make a strong contrast to the other trees they are good to use to fix the attention to some particular point in the landscape. Horse chestnuts have handsome leaves and beautiful blossoms in the spring, but the tree is so regular in shape and so solid that its other beauties are nearly lost. I have seen them when their regularity had been broken into by judicious trimming and they had quite an improved and interesting appearance. Where they are planted thickly together it changes them into a more loose and better form. Birches are quite airy and graceful and will grow almost anywhere. White birches look best in clumps by themselves. Where they are mixed with other trees the trunks look too chalky and make too much contrast. They need to be silhouetted against something delicate. Yellow birches have a peculiar light golden bark which makes quite an agreeable note in a forest. The alder is very suitable for bordering a stream; not a continuous monotonous hedge but in detached groups. Maples are fine avenue trees, but they are so regular in shape that they are almost as impossible as the horse chestnut for the picturesque plantation. The scarlet maple does well to mix with ash or elms or cedars. The red blossoms in the spring and the brilliant autumn foliage make them very attractive. Chestnuts almost rival oaks in beauty and character and longevity. They fulfil almost the same conditions and are fine in a forest or groups in ornamental plantations or standing singly where a large and beautiful tree is desired. When old sometimes the lower limbs lie flat upon the ground and are wonderfully picturesque. All the hickory family are very handsome. Shellbark and pignut hickories are most paintable on account of their agreeable shape, the fine color and texture of the foliage, and the pleasing variety in light and shade. Shagbarks grow to an immense height and, when confined in a forest, shoot up 50 or 60 feet without branches. Willows are useful for the border of streams or ponds. Not too many of them should be used however, as it makes the effect too fuzzy. The common white and



DELICACY
Group of Birches.

line, not too long, of Lombardy poplars is a welcome variation in an otherwise dead level and monotonous landscape. They are also occasionally fine silhouetted against a high distant hill, as they help to send the hill back into atmosphere. Oaks are suitable for almost any location. They are most ornamental and most expressive of majesty and strength. There is a great depth of shadow and richness, and at the end of the day when they are wind-tossed and the last rays of the sun strike them, they look like trees of gold. It is when they have reached a great age that they are best and have greatest character and beauty.

It is becoming the fashion to cut off the ends of the limbs of great trees, called heading in, I believe. This amputation is supposed to prolong the life of the tree. It may be true that it will but I do not know that it has

the limbs are usually long and twisted and knotted and are said to quite nearly resemble the English royal oak. Nearly all the white oaks I have ever seen have been growing within or on the edge of a forest and they do not usually attain a very great size under those conditions. The white, black, red, and scarlet oaks are the kinds that are most common around New England and they make the greatest of ornaments to the landscape. The American elm and English elm are both fine trees for shade and ornament and the American elm is especially good for avenues. The plane or buttonwood tree is best when planted singly or in small detached groups. It has fine light foliage and irregular and picturesque shape. The best trees of this kind that I have ever seen are at Pine Bank. The American white ash has a fine appearance especially when old, when the lower limbs droop

Russel willows are best; it is quite a common thing to cut them off about 6 or 8 feet above the ground, then let the quickly formed new limbs spread in every direction. I think this effect is quite fine. In a row or group the trunks will always grow in many directions and they are varied and interesting and picturesque. I do not care for weeping willows. Sassafras trees as they grow along the Connecticut and Rhode Island shores, are about the most picturesque and decorative trees that I know of, unless perhaps an occasional old red cedar that has been blown and twisted by the winds. The trees that I have seen in Connecticut have gracefully curved trunks, a solid mass of foliage, and finely decorative contours. I should think they would be excellent to use in a formal garden in the place of cypress. The tupelo is a little allied to the sassafras in the appearance of the thick mass of foliage and twisted trunk. They grow in a very symmetrical form when standing alone

ledge location. Red cedars are rather stiff and formal when young, but when they get old and some of the limbs get broken and others twisted about by the winds they are very Japanese and paintable. The late afternoon sun shining on them produces an effect of unusual richness of color and in the moonlight they are still beautiful silhouetted against the night sky. The more rocky a place is the better they seem to like it, and often they fasten themselves to a ledge where there scarcely seems to be any soil.

In Gilpen's book on landscape architecture he describes a very charming layout, in which he lays much stress upon the beauty of the architectural foreground. The house he speaks of stands on the brink of a chalky cliff and commands a rich middle distance of park scenery with an extensive view of the sea beyond. By adding a foreground of low shrubbery or groups of blossoming plants or by framing the picture with rightly placed trees a striking and beautiful composition

of existing conditions from important points of view and of important views. Then in the sketches make such changes as will improve the compositions, then make the changes in nature. The edges of plantations or forests are the parts that require a great deal of skill and attention. If you get the edges finely adjusted in every way the rest of it will take care of itself. He recommends planting roses, paeonies, hollyhocks, to soften the edges and leaving the grass long also helps. A good suggestion for laying out a scheme for planting is to lay down evergreen branches on the ground and view from various points and arrange until you have a good shaped bed and which composes well with things around it, then mark it and plant. Large branches stuck in the ground are good for getting tree locations.

Hide the drives and walks as much as possible, only allowing them rarely to appear, just to give variety in light and shade. I do not mean to hide them with high shrubbery; low shrubbery will do pretty well and will not cut off the view from the road. Use such shrubs as have a color and interesting appearance in winter as well as summer. In estates where cattle, deer, or sheep are allowed to graze on part of the grounds, the part near the house or the more ornamental part with the shrubs and flowers, has to be separated by some kind of artificial barrier from where the cattle are. That which is most in favor is a woven wire fence with galvanized iron posts all of which is quite inconspicuous and can not be seen at all from a little distance. A low wall can be made very attractive or the common stone wall or stone fence as seen in New England pastures, when built over undulating ground and allowed to twist about and over the ridges and vine clad in places and broken with clumps of blackberry, huckleberry, sumac, and barberry and an occasional tree or group. Trees and shrubbery should be planted in irregular figures, which, as the sun moves around, gives constant variety of light and shade and form and color. In regard to paths, they should wander about where the pleasant prospects are; that is, those that are for promenade. The ones that are for utility should go fairly direct so as to serve that purpose. A walk should at least be wide enough so that three people can walk abreast. Six feet is about as narrow as it is practicable to make them. If a path should go along a river or around a pond, if the nature of the ground permits, it should approach near the edge only at intervals, but where beautiful scenes can be viewed there the walk should go. Do not smooth off the surface of the ground too much. The wrinkles and humps and hollows in old mother earth are interesting and full of character and should be recognized as a good fortune rather than things to be gotten rid of.

Suggestions for the Wild Garden.

The term wild garden is applied to the placing of perfectly hardy plants where they will become established and take care of themselves. The way planting is usually done, is to stick out a lot of subtropical plants in beds which bloom brilliantly through one season and with the first frost they are killed and have to be dug up and the



UNCONVENTIONALLY DECORATIVE

Group of Sassafras.

but the foliage is so beautiful that they are attractive in spite of their regularity. They turn the most brilliant color of anything in nature in autumn and are fine to plant on the borders of an oak, hickory, or chestnut forest for the fine autumnal effect. White, yellow, and pitch pines, and red cedars are the only evergreen trees that I have seen that I care for. Spruce and hemlock look too much like toy trees and only look good when they have been decorated by a snow storm. White pines are rapid growers and when planted in groups rise with straight shafts and send out graceful, tufted, horizontal branches every few feet at irregular intervals and make fine decorative trees. The foliage of the pitch pine is a somewhat yellower green and the trees in these parts do not grow very large but are of interesting shape. They generally grow on poor sandy soil or a

is produced. The strong contrast of trees in the foreground or of a parapet with its decided form of light and shade would greatly increase the aerial softness and mystery of the distance.

A word in support of the necessity of a terrace. In many instances where the ground has a continuous slope and the whole scene seems to be sliding away (from the point of view of a picture) and the eye runs away from the important objects, the terrace would make a level line which interrupts the slope and gives balance. A clump of trees would also have the same effect. A terrace lends dignity to a house. Gilpen recommends planting a few Lombardy poplars near the buildings which makes a number of vertical lines to balance the many horizontal lines in most houses. This gives stability to the composition. In going to work to change a layout or to make a planting scheme, make a sketch

same thing repeated year after year, at an enormous expense and a mighty poor result as seen in the public garden of Boston and nearly every other city. To most people a pretty plant in a free state is more attractive than any garden denizen. It is taking care of itself and moreover it is usually surrounded by things consistent with its wild state. Among the many reasons for advocating this system are the following: 1st "because hundreds of hardy flowers will thrive much better in a wild rugged place than they ever did in the old fashioned border."

2nd. "They will look infinitely better than they ever did in the border owing to the more varied and interesting surroundings and contrasts."

3rd. "No disagreeable effects result from decay for as soon as one plant is out of bloom it merely passes out of notice among the other shrubs and is succeeded by other blossoms."

4th. "Because it enables us to grow plants that have no place in the trim garden, but growing in large masses in a field would be very beautiful."

5th. "The early spring can be made alive with blossoms."

6th. "The great merit of permanence belongs to this delightful phase of gardening. If a place is planted with good taste and judgment in the first place time will only add to its beauty." The borders of shrubbery, which usually make a hard monotonous line, could be planted with irregular groups of these hardy plants and make better connections and a source of no care or trouble. Let the grass grow and wave with the wind and let the blossoms fill it with spots of color. Wild and semiwild places are suitable for the wild garden and almost any part of a public park not used for a playground can be made much more interesting than they usually are by adding more color and variety. Great care must be taken to plant these flowers in natural

groups and the only way to learn that is to observe if possible the way these same flowers locate and arrange themselves in the wild state. After they are once rightly established they will arrange themselves in ways that will leave nothing to be desired. "People seldom remember that 'the art itself is nature' and foolish old laws laid down by landscape gardeners are yet fertile in perpetuating the notion that a garden is a work of art and therefore we must not attempt in it to imitate nature." The digging of shrubbery borders gives a very ugly appearance to a garden or park. It is perhaps necessary for a year or two in order to give the shrubs a good start, but after that they should be planted to flowers that will best grow in such a place and then let them alone. Of course all the labor required to produce this miserable effect of dug up borders is worse than thrown away as the shrubs would be better if left alone and by utilizing the power thus wasted, we might highly beautify the places that are now so ugly. Don't rip out the leaves. They decay and help to nourish the plants and trees. Of course in a public park there is a likelihood of fires being started among the leaves, but in a private estate where trespassers are not allowed there is no need of raking up the leaves. They protect the grass and when the snow is off they make the winter appearance of the grounds less monotonous. In the immediate vicinity of the house where they are apt to be trodden into rubbish it may be necessary to rake them up. It is my opinion that the fault is more with the planting than with the leaves if they look at all incongruous, for in a beautiful, paintable, natural place the fallen leaves are beautifiers of the ground. "It is now generally conceded that shrubs thrive better in beds where the surface is never disturbed than where it is annually loosened by digging." The kind of knowledge one needs in order to form a beautiful garden or park is very uncommon. No man can do so with few materials. It is necessary to have some knowledge of the enormous wealth of beauty which the world contains for the adornment of gardens. He must know his materials as a painter knows his pallet and use it as freely to arrange things of beauty and life. An old name for a garden is a pleasure, a paradise, a place of delight, and as in the days of Bacon, so to-day gardening remains to us the purest of human pleasures. The garden worthy of its name is ever beautiful, of fruits for service and of flowers for sacrifice. In the morning it is all freshness and perfume; at noon it is brilliant with color; while at eve it becomes a temple for meditation and for rest. The richest fruits and the fairest flowers are born there and crowned heads, wearied with luxury, have found peaceful rest among shady trees and simple flow. If we wish to describe a fertile land we say it is like a garden; and the gardener's art is almost magical, since it can make the bare rock or a sandy desert even, to blossom as the rose. A good garden is a continual delight, a paradise of fruits from many lands. Every shady tree is a tabernacle wherein matins and vespers are sung by birds while the incense from many flowers is borne on every breeze.

Seed Trade

The quality of weather remains as bad as during the past three or four weeks, though there was a fair rainfall the early part of the week, which was much needed. The grass is becoming green rapidly and the promise of spring is not, after all, a joke, as was recently remarked. From all reports gentle spring is exceedingly coy in the West, but the season is still young, and there is time for good crops, if there are no setbacks after planting.

The latest estimate of damage to the prospective onion seed crop in California places the number of acres totally destroyed at something over one thousand, and a crop of from thirty to fifty per cent. from what is left. It is said that one of the principal growers expects some surplus of the yellow varieties, but as he had booked no "futures" according to reports, if he has any seed at all, it would be surplus. A letter from another grower, and a conservative one, states that in his opinion onion seed will be worth from \$2.00 to \$3.00 per lb. next fall. In a few weeks we shall be able to give a reasonably accurate statement of the real conditions.

Notwithstanding reports of serious damage to early vegetables in the South, the demand for seed for replanting has not been heavy, indicating either that damage reports are exaggerated or else it is considered too late to replant such crops as are intended for shipments to northern markets; possibly a combination of both.

Weather from the latitude of New York City north has been too cold for the planting of tender vegetables, or if planted, germination will be slow or very unsatisfactory, and of course in many instances the seeds will be at fault. Such seasons as this always add to the seedsmen's woes, but it is the portion of the trade to endure this as an inevitable part of the business.

Reports from Washington state that B. F. Brown has lost the contract for putting up the seeds for the next government distribution. Possibly the experience of the Department of Agriculture when it awarded the contract to an irresponsible bidder from Dunkirk, N. Y., two or three years ago, has been forgotten. It has been fully demonstrated that the work cannot be done by hand within the time required. Even if a hand machine is used for filling the packets, the pasting must all be done by hand. However, there is no wish to prejudge the case, and seedsmen can view any delay in getting out the seeds with perfect equanimity.

Pea-packing companies of Manitowoc, Wis., have opened the season, and the Landreth Company started planting with a crew of one hundred teams and several hundred employees. The season has been delayed at least three weeks, and the industry will probably suffer considerable loss as a result, though there is now a good prospect for a successful season. There are in and about Manitowoc

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Fredonia, April 30.—Elton A. Cole and Herman J. Westwood of Fredonia have been awarded the contract for the packing and distribution of the 36,000,000 packages of seeds required for next year's "free seed" distribution. The contract was given these Fredonia men last week in Washington in competition with the Brown Bag Filling Machine Company of Fitchburg, Mass., and other seedmen and contractors. The price at which the job is taken is \$1.18 1-2 a thousand packages, the seeds to be furnished, and all work being done under the direction of the government Department of Agriculture in Washington. The gross amount of the bid is nearly \$43,000.

The Brown Bag Filling Machine Company has had this contract for several years. Four years ago James L. Drohen of Dunkirk secured the contract, and started to do it with a machine of his own invention. He was stopped by an injunction by the Fitchburg people, who claimed his machine to be an infringement on patents they controlled. H. J. Westwood, the present principal in the bidding, was Drohen's attorney. He fought the case to a finish, securing a very small measure of damage for his client. His present associate, Elton A. Cole, is the owner of the Fredonia Manufacturing Company, and a prosperous business man.—New York Times.

NEWS NOTES.

E. F. Priester has started in the nursery business at Sault Ste. Marie, Mich.

The Detroit Park Commissioner is making extensive beds of the old favorite, *Primula auricula*, in some of the most prominent city parks.

The improvements contemplated and in progress upon the adjoining grounds of S. W. Winslow and H. F. Winslow at North Beverly, Mass., require the services of competent gardeners. Peter Scott is at work in that capacity for the former and Peter McCurrach for the latter. H. F. Winslow will add a rose house to be built by Kelliher & Calder this season.

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Equipment and Organization of a Modern Horticultural Establishment

Paper Read by J. Otto Thilow, Before the Florist Club of Philadelphia.

The consideration of this subject lends more interest when we compare the aggressive modern establishments of the present time with those of thirty or more years ago. Then, in the absence of the enticing catalog and the undreamed of trade papers, the growers' chief aim was to have a full supply of salable plants in bloom at the opening of the spring season.

The stock consisted of all the then known varieties of every species of bedding, basket and ornamental plants. The florist's market was any point that he could reach. The beast which showed the greatest amount of endurance was nitched to the market wagon, and the assistant or son, daughter, or even the wife was assigned to the task of visiting the neighboring towns with a load of plants in bloom. This method ended with the spring months, and the leftover stock was either advertised at bargain prices in the local papers, or thrown away, as surplus.

The growers who were adjacent to cities, were represented in the markets, occupying one or more stalls with the most attractive stock. At the close of the season the general routine of work followed, that of planting out and caring for the stock plants and blooming stuff for the following winter months. The equipment of these establishments was varied, as a greater variety of plants could be found in the collections of the florists of those days than now. The organization was modest, yet complete, as the florist and his family constituted the faculty, with extra help if needed. The duty of each was to understand the general routine of work from the office to the stoke-hole, the system requiring every one to work for the one aim, that every available corner be filled with attractive stock and in bloom for the spring season.

The florist of the early and even the present day, has always found the wife an important factor in the organization, her judgment and ever untiring interest is indispensable, she has been the helpmeet and always will be as long as her interest in horticulture continues; woman's influence contributes almost altogether to the remarkable demand of the present day. Due credit is not given her for what she has accomplished; she is to-day pre-eminent back of the counter in florist shop, and deeply interested in the work of the greenhouse establishment. Woman was the first to give us a treatise in horticulture in this country; this honor fell upon Mrs. Logan, a florist of Charleston, S. C. This she did at the age of seventy years, in the year 1772.

In referring to the horticultural establishments of the early days, I would not pretend to say that they were not active and lucrative for the growers. Many of the veteran florists were known to you, some of them living to-day who enjoyed their years of toil with good prices for their product. There are establishments existing to-day with modern methods, which pursued the routine above men-

tioned, but keeping pace with the changes demanded by the advance in commercial horticulture, they have branched out as specialists and are classed and known as such in the trade.

It has been noticeable that certain stocks were best suited to certain localities, and to these the growers concentrated their efforts to the greatest improvements of such stock. This method has met with general success, inducing constant extension and enlargement of facilities, demanding modern construction, heating, ventilating, simple and economical methods of handling and shipping. This condition seems to have asserted itself within the last twenty years, and has advanced the interest and the growth of the business in general, in that the growers depend on each other for special stocks, hence the florist of the present time is retail in general stock, and wholesale in special stock.

Their dealings have become reciprocal, the trade papers have entered upon the field, and all seem to be doing a thriving business, and through this medium the enterprising florists know more of each other and the skill of those in special lines. From my own limited observations, I can say but little of other large and aggressive horticultural establishments except the one with which I have been connected for the past quarter century, an establishment which is keeping pace with the increasing demand, largely through their own catalog and the influence of horticultural magazines and rural home publications which are creating an intense taste among the plant and flower-loving people of our country. And what is true of the department offering the subjects for this paper, is true of other aggressive establishments of this country—that organization must be commensurate with modern equipment; so with your suffrage I beg to point with pardonable pride to the plant department of Henry A. Dreer, Inc., at Riverton, N. J., under the able management of J. D. Eisele, the vice-president of the company. I therefore make bold to ask, with the advance and increase in each branch of this department, may we not modestly assume it to be among the modern establishments in equipment and organization?

The trend in recent years has been very decided in the attention given to perennials and many works have been published, treating entirely on the old-fashioned or hardy garden. The amateurs seem to enter into this line with new zeal year after year, so that this department has grown to the enormous extent of 2000 varieties, requiring forty acres to perpetuate the stock. The interest in aquatics is a development of the past twelve years, and has extended from this country to Europe. Fully six acres are now devoted to this branch and many of the best introductions of recent years are of American origin. Twenty years ago it was considered a bold plunge to devote one house, 12x100, to ferns. Since 1898 over one acre is given to these, and fully a quarter million are

in readiness for immediate market, and one and a half million are handled every season.

Palms are the leading decorative plant. From the owner of the conservatory to the occupant of a flat embellished by a fire escape, the palm has a place, and is essential in the collection of plants for home adornment. These alone occupy four acres of glass. Seeds of the important varieties are imported from their native haunts, the most prominent being the kentia. These are now in batches of from 75 to 100 bushels at one time. Other varieties are used in proportion. The palm industry with that of the fern, is practically a development of the past twenty years.

The dahlia which was somewhat obsolete for a number of years, has been resurrected, and many new varieties and new types have been introduced. Ten years ago less than 6,000 constituted the stock, 75,000 in 1904, and now the enormous number of 300,000 is necessary to meet the demand, requiring 50 acres for maintaining the stock. The demand for the ever popular azalea is still on the increase, ranging from 150 plants imported in 1876 to the present requirement of 60,000. Roses for outdoor planting are among the very important of spring stock, and have made the most marked increase of from 6,000 eight years ago, to 200,000 the present requirement.

Enumerating the above is only to show the advancement made in commercial horticulture along the line of specialties, much other of the varied stock is grown in proportion to the demand. To harbor and maintain an equipment of such magnitude, extensive glass and open area is necessary, besides many accessories with which to carry it through from season to season, viz.: a glass area of from seven to eight acres of modern construction in greater part. Boiler capacity of 850 H. P., which consume 3,000 tons of coal per annum. Water capacity for all used, 300,000 gallons per day. A fumigating house of special construction as required by the State laws, for hydro cyanic-acid gas, for safeguarding against even an incipient presence of scale. A complete machine shop, operated by steam power, for repairing and constructing, and supplied with saw-table for cutting lumber to required sizes for cases and crates for shipments, also a carpenter shop in constant operation. A cold storage area for storing stock for winter and early spring shipment to southern points. Experimental grounds for the thorough testing of new varieties of plants of foreign and home production. A supply department which is under control of one who knows the value of preventing waste. All supplies, from office stationery, tools for machine shop, and every utensil needed in, under glass and open ground, to the most minute item, are guarded with vigilant exactness, replenished before exhausted, and distributed only as needed and upon orders, the working force of this establishment being 150 men, among whom are twenty order clerks, and

Dreer's Hardy Perennial Phlox

We are the largest growers of Perennial Phlox in the world. Our collection is unequalled, and we are prepared to furnish the new and rare kinds as well as all the popular and standard varieties in large quantities.

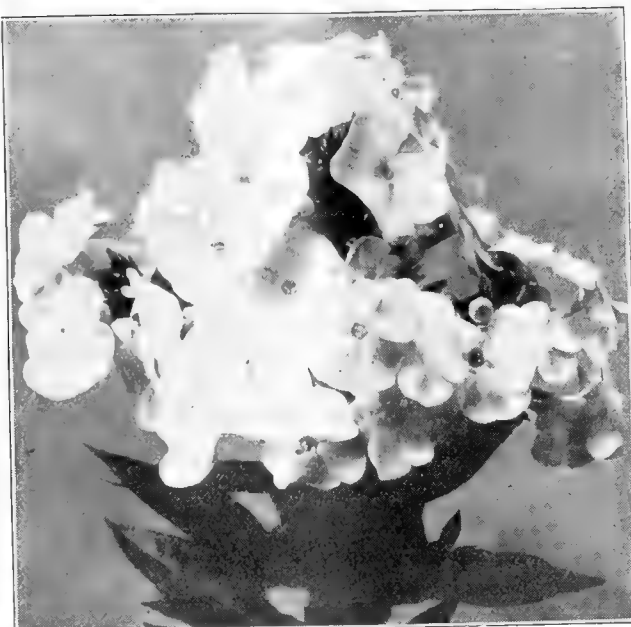
The plants we offer are nearly all strong one-year-old field-grown plants or equally strong divisions, and will make a fine display of flowers this season. This stock is much superior to and must not be confounded with young Winter propagated stock such as is generally sent out in the Spring of the year.

New and Rare Hardy Phlox and Varieties of Special Merit

	Per doz.	100	1000
Alblon (Tall). A variety which originated with us several years since and which is now offered for the first time. Strong grower, pure white with faint aniline red eye.....	\$1.50	\$10.00	\$90.00
Chateaubriand (Medium). Pure white, with crimson carmine eye.....	1.25	8.00	70.00
Coquelicot (Dwarf). A fine pure scarlet.....	.95	6.00	50.00
Etna (Medium). Crimson red, suffused with fiery red.....	1.25	8.00	70.00
Edmond Rostand (Medium). Reddish violet, with large white star-shaped center.....	1.50	10.00	90.00
P. G. von Lassburg (Tall). The finest white in cultivation, pure in color, a strong, vigorous grower.....	2.00	15.00	125.00
H. O. Wijers (Tall). A fine large pure white, with crimson carmine eye.....	1.25	8.00	70.00
Independence (Tall). An excellent large flowering early white.....	.85	6.00	50.00
Lamartine (Tall). Very bright magenta, with large white center.....	1.25	8.00	70.00
Le Mahdi (Tall). Deep reddish violet, darker eye.....	1.25	8.00	70.00
Mrs. Jenkins (Tall). An early flowering, pure white, forming an immense panicle, one of the best.....	1.50	10.00	90.00
Stella's Choice (Tall). A mauve branching late white variety.....	.85	6.00	50.00
Selma (Tall). Pale rose mauve with distinct claret red eye.....	1.50	10.00	90.00

Choice Standard Phloxes

Aquillon (Tall). Bright Tyrian rose.
Andreas Hoffer (Medium). An early and continuous flowering pure white.
Bouquet Fleuri (Dwarf). Pure white, with crimson-carmine eye.
Bridesmaid (Tall). White, with large crimson carmine centre.
Bacchanale (Tall). Tyrian rose.
Colibri (Tall). White, with crimson-carmine centre, late.
Champs Elysee (Medium). Bright rosy magenta, an effective shade.
Crystal Palace (Tall). Lilac with white markings.
Cross of Honor (Medium). White, with a band of reddish violet through the centre of each petal.
Cyclon (Dwarf). White, suffused with lilac.
Eclairer (Tall). Brilliant rosy magenta, with light halo.
Eugene Danzenviller (Tall). Lilac, shading white toward the edges.
Esclarmonde (Tall). Lilac, washed with white.
Edmond Audrand (Medium). Deep mauve.
Fantome (Tall). Bluish lilac, washed with white.
Graf von Ungerer (Tall). White, suffused with rosy-lilac.
Inspector Peiker (Tall). Purplish mauve, washed with white.
Jeanne d'Arc (Tall). A late flowering pure white.
La Vogue (Medium). Pure mauve, with aniline red eye.
La Soie (Medium). Rosy magenta, with light halo.
Mohler (Tall). Bright rosy magenta, with light halo.
Mozart (Tall). White, suffused with salmon.
Miramar (Dwarf). Reddish violet with white markings.



Mme. Marie Kuppenheim (Dwarf). A fine late pure white.
Offenbach (Dwarf). Lilac purple, lighter shadings.
Obergartner Wittig (Medium). Bright magenta, the best of its color.
Pecher d'Islande (Tall). Crimson-red, suffused with cochineal red.
P. Bonnetaine (Medium). Deep rosy magenta.
Professor Schlieman (Tall). Pure mauve with crimson-carmine eye.
Roxelane (Tall). Reddish violet with aniline red eye.
Sunshine (Dwarf). Aniline red with lighter halo.
Simplon (Tall). White with aniline red eye.
Semiramis (Tall). Rosy magenta with lighter centre.
Schlossgartner Reichenau (Dwarf). Solferino, red.
Thebaide (Dwarf). Carmine lake with brighter shadings.
Talma (Dwarf). Rosy magenta, small white eye.
Wm. Muhle (Tall). Carmine-purple with crimson eye.
Price—Choice Standard Varieties. Strong Plants, 75c. per doz.; \$5.00 per 100; \$40.00 per 1000.

Phlox Subulata

Moss Pinks or Mountain Pinks

Alba. White.
Altropurpurea. Purplish rose.
Lilacina. Light lilac.
Nelsoni. Pure white.
Rosea. Bright rose.
The Bridesmaid. Purplish tinted white with deeper eye.
 All the above in strong clumps, 75c. per doz.; \$5.00 per 100; \$40.00 per 1000

Phlox—Various Types

	Per doz.	Per 100
Amoena . Clumps.....	\$0.75	\$6.00
Divaricata Canadensis . 3-in. pots.....	.75	6.00

For complete list of hardy Perennial Plants, see our current Quarterly Wholesale List just issued

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SEASONABLE STOCK In A No. 1 Condition

From 2 in. Pots

	100	1000
Hardy Chrysanthemums , Large-flow- ering or Aster.....	\$3.00	\$25.00
Hardy Chrysanthemums , Small-flow- ering or Button.....	2.00	18.00
Geraniums , Standards and Novelties. Alternantheras , 6 varieties, strong.....	2.00	18.00
Lemon Verbenas , (Aloysia citrodora).....	2.00	18.00
Verbenas , white, scarlet, purple and striped.....	2.00	17.50
Petunias , Dreer's Single.....	2.00	17.50
" Double, fringed.....	3.00	25.00
Salvias	2.00	17.50

And other Bedding Stock. Send for List.
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I have the following stock to offer in any size and in any quantity:

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The following varieties, in 4 in. pots, in bud and bloom, in fine condition.

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Selection of sorts to remain with us.

Cash to accompany all orders.

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Piersoni Elegantissima

The Tarrytown Fern

A good stock in all sizes on hand at all times. A splendid seller and money-maker. Large specimen plants, ready for immediate sale: 6-inch at 75c and \$1.00 each; 8-inch at \$1.50 and \$2.00 each; 10-inch at \$3.00 each; 12-inch at \$5.00 each; 14-inch at \$7.50 each; 16-inch at \$10.00 each. Also fine young stock for growing on, 2¼-inch at \$8.00 per hundred.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

thirty-five packers. A horticultural establishment thus equipped requires systematic organization to cope with the ever increasing demand of the eager plant-loving public, and, as the pressure and bulk of the business is confined to the short period of spring operations, the strain is severe upon those on whom the responsibility falls. The force must be divided and assigned to the various branches, the heads of each force to assume the responsibility for the accomplishment of such work to which he is delegated. The staff must be headed by a manager, vigilant and capable, assisted by an office force of skilled horticulturists who take up the details and carry them to completion, answering all inquiries of the departments to which they belong. He must be able to answer inquiries on all subjects in horticulture, and give information leading to same; advise the inexperienced regarding plants. He must be a fund of information, one on whom the enthusiastic amateur can and does draw freely. He must be in constant touch with his trustworthy and capable heads of each department, who with him formulate plans for the seasons ahead, anticipating the demands which catalog and other advertising mediums might inspire.

The propagator, a dependable personage, must be capable, one with good judgment in regulating the stock quantities by general conditions and species. Only by close application and years of practice and study, does he become familiar with the wide range of plant conditions and the care of same, observing through all his work that careful labeling is imperative. He is to propagate in such quantities as the manager may direct.

The packing department is an important one. While the order clerks may do their work carefully and to all appearances completely, yet the packer must again check up before he finally packs for shipping. He must use judgment as to the duration of transit and pack accordingly, to guard against weather conditions at destination and in transit, to pack consistently light to save heavy transportation charges. After he is through he

passes the case or cases over to the shipping department, after making a record, marking date and time of his release of said packages.

The shipping department must be under the supervision of one who knows how, when, and where to ship, 1st by the most expeditious and cheapest route; 2d, at a time when safe against severe weather; 3d, to a point most accessible to the consignee. He is to be provided with the latest shipping guides, and be in close touch with carrying companies so as to keep himself informed of the most expeditious routes. Thus it requires one of keen scrutiny regarding shipping rules and conditions, so that the perishable stock he delivers is promptly and safely transported to destination, carefully marked and certificate of inspection of State Entomologist attached. The modern horticultural establishment should have a corps of travelers, who have a knowledge of the stock besides their catalog information. They must anticipate the wants of their patrons, knowing the special line of each one. They should be practical plantmen, and in all their transactions advance the integrity of their house.

The catalog of the modern horticultural establishment is now an indispensable medium, finding its way into the remote corners of the globe. It is the feature on which the mail trade depends as well as that of the customers who are within reach. This medium must be new every year and full of information in order to appeal to the prospective buyer. Since the half toning process from photography gives such real reproductions, the plant catalog, like the magazine, becomes a household pleasure and must be in the hands of the patrons early enough to be consulted before the close of winter when open air work is being eagerly anticipated. The work of compiling this volume must be in the hands of one who has practical experience in all departments, as information given through a reliable catalog is taken as authentic. It has become as much of an educator as the horticultural magazines, and must therefore be resplendent with new

matter and illustrations. As photography enters largely in its compilation, a fully equipped department must be provided to observe every opportunity through the seasons for the reproduction of new features. The one having all catalog matter in charge should also provide the advertising matter fresh and varied for the trade papers and other mediums.

I have touched only superficially on the subject of equipment and organization, and have only cited that of the plant producing industry. A large, if not the greater part of those engaged in commercial horticulture are interested in the cut flower growing. Near the busy marts of this country and of Europe are to be found extensive glass structures which find ready market for their immense product. These, too, are almost entirely given up to specialties, such as are best suited to soil, climate and conditions of their locality, and to these all forces are concentrated. I have visited some of these establishments in the East, and note from the excellent system adopted and the success achieved, that it is entirely through proper organization and up-to-date equipment. The structures are modern in every detail. The force is divided into sections and to each of these is allotted the care of a block; the cutting, packing and shipping is in care of experts who through long experience have learned to confine their efforts to types and varieties susceptible to the greatest improvement under intense cultivation. It is true, also, that the quality of the produce from improved varieties has greatly increased the demand and engendered a wider taste.

Proper organization is essential to the economical and successful operation of a modern horticultural establishment, more especially that it does not and should not increase the detail of labor of the management, but be divided among the various heads of departments in whom confidence should be reposed.

Crops and trees in Barry County, Mo., were seriously damaged by a heavy hail storm on May 6.

NEWS NOTES.

Clarence Smart, 6321 Cottage Grove avenue, is a late accession to Chicago's retail florists.

Ratliffe & Tanner, Inc., will open a retail florist establishment on West Broad street, Richmond, Va., about July first.

The land occupied for forty-one years by John Myers, florist, Broadway and 89th street, New York, has been taken by the Astor estate for building purposes.

Burgevin Bros., Kingston, N. Y., are sending out a colored postal card, showing a view of the handsome new Burgevin Building in which their city store is located.

The application of Reed & Keller of New York for a patent on a device for holding cycas leaves, in floral work, has been allowed under date of April 29. It is a very practical little thing which the retail florist will find very useful.

Franklinville needs a florist, and a greenhouse here would be well supported. Several agents do a thriving business in selling cut flowers, and merchants have a large sale of plants. Olean, Buffalo and East Aurora supply this village at present.—Buffalo, N. Y., Times.

The annual meeting of the stockholders of the New York Flower Exchange was held on May 4, at the market, 26th street and 6th avenue. George Golsner, George Matthews, A. S. Burns, Phil Einsmann and John Schneider were elected directors of the corporation for three years. The distribution of a surplus of \$9000 which has been accumulating was a topic of discussion and its disposition was left to the directors, the general sentiment being that it should be divided among the shareholders. At the subsequent directors' meeting officers were elected as follows: president, John Schneider; vice-president, George Matthews; treasurer, Charles Beckman; secretary, Victor Dorval, Jr.

Arrangements are being made at St. Catherine's, Ont., for a fruit, flower and vegetable show on a large scale in September. The Government will be asked to make a large grant.

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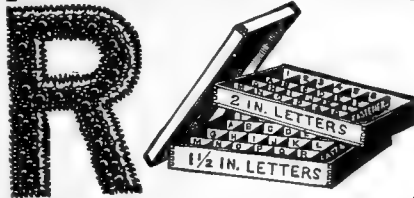
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CUT FLOWERS of BEST QUALITY in season
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Write, Telegraph or Telephone.
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This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

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AMERICAN BEAUTY and all other
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	CHICAGO May 6	TWIN CITIES May 6	PHILA. May 6	BOSTON May 9
ROSES				
Am. Beauty, Fan. & Sp.	40.00 to	25.00 to	20.00 to 25.00	20.00 to 25.00
“ Extra.....	25.00 to 30.00	20.00 to	12.00 to 15.00	15.00 to 20.00
“ No. 1.....	15.00 to 20.00	18.00 to	8.00 to 10.00	8.00 to 10.00
“ Lower grades.....	6.00 to 12.00	..... to	3.00 to 5.00	2.00 to 6.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	6.00 to 8.00	8.00 to 10.00	6.00 to 8.00
“ “ “ Extra.....	4.00 to 6.00	..... to	4.00 to 6.00	3.00 to 4.00
“ “ “ No. 1 & lw. gr.	3.00 to 4.00	4.00 to 6.00	2.00 to 3.00	.50 to 2.00
Liberty, Richmond, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	8.00 to 12.00	8.00 to 12.00
“ “ Lower grades.....	3.00 to 5.00	4.00 to 6.00	3.00 to 5.00	.50 to 6.00
Chatenay, Morgan, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	8.00 to 10.00	4.00 to 6.00
“ “ Lower grades.....	3.00 to 5.00	4.00 to 6.00	3.00 to 5.00	.50 to 3.00
Killarney, Wellesley, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
“ “ Lower grades.....	3.00 to 5.00	4.00 to 6.00	3.00 to 4.00	.50 to 4.00
CARNATIONS				
Fancy and Novelties.....	3.00 to 4.00	..... to 3.00	2.50 to 4.00	2.00 to 3.00
Ordinary.....	2.00 to 3.00	1.50 to 2.00	1.50 to 2.00	1.00 to 1.50
MISCELLANEOUS				
Sweet Peas.....	.50 to 1.00	..... to 1.00	.50 to 1.50	.50 to 1.00
Cattleyas.....	50.00 to 75.00	..... to	50.00 to 60.00	35.00 to 50.00
Tulips, Daffodils.....	..... to .....	..... to	2.00 to 3.00	.50 to 1.00
Lilies.....	12.00 to 15.00	12.50 to 15.00	8.00 to 10.00	6.00 to 8.00
Callas.....	10.00 to 12.00	12.50 to 15.00	8.00 to 10.00	6.00 to 8.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00	.50 to 2.00
Gardenias.....	35.00 to 40.00	..... to	12.00 to 15.00	10.00 to 25.00
Mignonette.....	4.00 to 8.00	..... to	2.00 to 3.00	1.00 to 2.00
Lilacs (too bunches).....	50.00 to 100.00	..... to	35.00 to 75.00	25.00 to 50.00
Peonies.....	6.00 to 8.00	..... to .....	..... to .....	..... to
Adiantum.....	.75 to 1.00	..... to 1.00	1.00 to 1.50	1.00 to 1.50
Smilax.....	20.00 to 25.00	..... to 20.00	15.00 to	12.00 to 16.00
Asparagus Plumosus, strings.....	35.00 to 50.00 to 40.00	35.00 to to 50.00
“ “ & Spreng. (too bchs.).....	35.00 to 50.00 to	35.00 to 50.00	35.00 to 50.00

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and 9 Chapman Place,

See our Greens Advertisement on page 635.

L. D. Telephone, Main 2818.

CUT FLOWER MARKET REPORTS

BOSTON

Business this week shows no improvement over that of last week. There has been a steady increase in receipts at the wholesale markets with a decrease in prices all down the list, and it takes a big amount of material to amount to any respectable sized bill. Prices are exceptionally low for this season of the year. Roses remain stationary except in quality; they are weakening in size. Carnations are very much in overstock, and the market is decidedly weak on all grades and colors, especially white. Lily of the valley finds a very feeble sale. Daffodils from outdoors are now in full tilt. Sweet peas sell readily. Violets will close out this week and go into seclusion until next fall, by which time we shall all have learned many things of which we are now in ignorance, blissful or otherwise.

BUFFALO

A good volume of business was had during the past week. Trade was good on various lines and stock not too plentiful. Roses of ordinary quality accumulated fast, but cleaned out fairly well at the end of the week. Carnations are good in quality and prices holding steady. The cool weather has held the violet on for a few days longer and the quality is not bad. Peas have been coming in more plentiful and selling readily. A good demand has been had in daisies, swainsona, etc.; smilax and other greens more plentiful; outdoor stock is not yet plentiful.

COLUMBUS

Cut-flowers are in short supply, and consequently bring especially good rates for this season of the

year at both wholesale and retail. Roses and carnations make the market. There are still some violets, also sweet peas, and lily of the valley; bulb stock is gone, and it will be some time from present appearances before any outdoor stock will be ready. Trade continues steady, and at good prices; this can also be said of the seedsmen and nurserymen, for while the weather forbids anything like a rush, still so many months of steady business means a fine total when the season finally does end.

DETROIT

Business has been heavier than the supply. While the dark, cold, weather of the last couple of weeks is reducing stock to some extent supply averages very well. The only surplus is daffodils.

INDIANAPOLIS

Cool weather still continues and trade has been comparatively good, particularly counter trade and funeral work. There is quite a shortage of carnations with poor prospects for a large supply for some time yet. Roses of all kinds are fairly plentiful with quality excellent. Sweet peas are quite abundant now and find good sale. Snapdragon, marguerites, pansies, ten week stocks are sold on sight. A general scarcity in variety of spring flowers seems to prevail. Planting season is still delayed on account of cool weather. The outlook for flowers for Memorial Day is gloomy. Green goods of all kinds are in demand and good ferns are scarce. Smilax is very short in supply and high in price.

NEW YORK

A very dull market on all lines is the story of the past week in and about the wholesale district as well as throughout the retail establishments. Quality is high on all items; roses have never been finer and this applies to every variety offered. One thing on the list that seems to be in short supply is white carnations; these bring extra prices and are snapped up quickly. Yellow daffodils, lilies, lily of the valley and gardenias are on the over-abundant list. Gardenias are seen in almost as many grades as American Beauty roses and at variant prices, with stems from two or three feet down to two or three inches. Among the usually less common things which are at present in abundance may be mentioned Queen Alexandra daisies, yellow, purple, and white centaureas and antirrhinums; the latter has been seen in glorious colors and unprecedented luxuriance of growth. There are still a good many violets around.

PHILADELPHIA

Market very fair for the season. Outdoor lilac, peach, dogwood and Japanese cherry sprays have made their appearance and are a welcome addition to regular subjects. Snapdragon is offered in various colors, but a soft self pink one seems to have the call. The snapdragon crop is bringing excellent price considering cost of production. American Beauty roses are plentiful and good, with fair demand. Liberty and Richmond are in excellent shape but are draggy. Bride, Bridesmaid, Kaiserin and Killarney are still good and

Continued on page 641

JOHN YOUNG
WHOLESALE FLORIST
 Finest American Beauties and
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 A Full Line of All CUT FLOWERS
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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending May 4 1907	First Half of Week beginning May 6 1907		Last Half of Week ending May 4 1907	First Half of Week beginning May 6 1907
Roses			Carnations, Ordinary	1.00 to 2.00	1.00 to 2.00
Am. Beauty, fan and sp.	12.00 to 20.00	12.00 to 20.00	Sweet Pans.	.20 to .65	.20 to .65
" extra	8.00 to 12.00	8.00 to 12.00	Cattleyas	25.00 to 40.00	25.00 to 40.00
" No. 1	5.00 to 8.00	5.00 to 8.00	Tulips, Daffodils	.50 to 1.00	.50 to 1.00
" Lower grades	1.00 to 3.00	1.00 to 3.00	Lilies	4.00 to 6.00	4.00 to 6.00
Bride, 'Maid, Golden Gate, fan & sp	5.00 to 6.00	5.00 to 6.00	Callas	4.00 to 6.00	4.00 to 6.00
" " " Extra	3.00 to 5.00	3.00 to 5.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
" " " No. 1 & lw. gr.	.50 to 1.00	.50 to 1.00	Gardenias	5.00 to 20.00	5.00 to 20.00
Liberty, Richmond, fancy & special	6.00 to 10.00	6.00 to 10.00	Nigronette	1.00 to 3.00	1.00 to 3.00
" " " lower grades	.50 to 4.00	.50 to 4.00	Lilacs (100 bunches)	10.00 to 25.00	10.00 to 25.00
Chatenay, Morgan, fancy and spec.	4.00 to 6.00	4.00 to 6.00	Peonies	..... to .....	..... to
" " " lower grades	.50 to 3.00	.50 to 3.00	Adiantum	.50 to .75	.50 to .75
Killarney, Wellesley, fan and spec.	4.00 to 6.00	4.00 to 6.00	Smilax	12.00 to 16.00	12.00 to 16.00
" " " lower grades	.50 to 3.00	.50 to 3.00	Asparagus Plumosus, strings	20.00 to 35.00	20.00 to 35.00
Carnations, Fancy and Novelties	3.00 to 4.00	3.00 to 4.00	" " & Spreu. (100 bchs.)	15.00 to 25.00	15.00 to 25.00

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\$7.50 Case of 10,000

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FOR

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And all kinds of Seasonable Flowers

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and are dealers in
Glassware Decorative Greens and Florists' Requisites

The florists of Portland, Me., met at Mrs. Lizzie Dennett's on April 29 and formed a permanent organization with officers as follows: President, L. C. Goddard; vice-pres., Mrs. Lizzie Dennett; sec., John J. Boyle; treas., J. W. Minott; committee on by-laws, M. E. McGunigle, Lizzie Dennett, A. W. Dyer, Alex. Skillins; on membership, J. H. Vickery, G. W. Billings.



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SELECTED STOCK

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Laurel Festooning, best made, 4c, 5c and 6c per
yard; once used, always used. Laurel Wreaths,
\$3.00 per doz.; cheaper grades if wanted. Southern
Smilax, fancy stock, 50-lb. cases, \$5.50. Branch
Laurel, 35¢ per bunch. Princess Pine, 7c per lb.
Brilliant, Bronze or Green Galax, No. 1 stock,
75c per 1000, or \$6.50 per case of 10,000.

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NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000.

Case of 10,000, \$7.50.

Write for prices on case lots.

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Best Southern Smilax, \$3.50 and \$7 per case.

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	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	May 6		May 6		May 6		May 6	
ROSES								
Am. Beauty, Fan, and Sp.....	25.00	to 30.00	to	20.00	to 22.00	20.00	to 25.00
" Extra	20.00	to 25.00	15.00	to 20.00	15.00	to 20.00	10.00	to 15.00
" No. 1.....	15.00	to 20.00	12.00	to 15.00	8.00	to 15.00	6.00	to 8.00
" Lower grades.....	8.00	to 10.00	6.00	to 10.00	3.00	to 5.00	3.00	to 4.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	.....	to	7.00	to 8.00	8.00	to 10.00
" " " Extra.....	5.00	to 6.00	6.00	to 8.00	6.00	to 7.00	.....	to 6.00
" " " No. 1 & lw. gr.	3.00	to 4.00	4.00	to 6.00	2.00	to 6.00	3.00	to 4.00
Liberty, Richmond, Fan, & Sp.	6.00	to 8.00	6.00	to 8.00	10.00	to 15.00	8.00	to 12.00
" Lower grades.....	3.00	to 4.00	4.00	to 6.00	3.00	to 10.00	4.00	to 6.00
Chatenay, Morgan, Fan, & Sp.	6.00	to 8.00	6.00	to 8.00	10.00	to 15.00	8.00	to 12.00
" Lower grades.....	3.00	to 4.00	4.00	to 6.00	3.00	to 10.00	4.00	to 6.00
Killarney, Wellesley, Fan. & Sp..	6.00	to 8.00	6.00	to 8.00	10.00	to 15.00	.....	to 8.00
" Lower grades.....	4.00	to 5.00	4.00	to 6.00	3.00	to 10.00	4.00	to 6.00
CARNATIONS								
Fancy and Novelties.....	2.00	to 3.00	2.50	to 3.00	2.50	to 3.00	3.00	to 4.00
Ordinary.....	1.00	to 2.00	2.00	to 3.00	1.50	to 2.50	1.50	to 2.00
MISCELLANEOUS								
Sweet Peas.....	.75	to 1.00	.....	to .....	.40	to 1.00	.50	to 1.25
Cattleyas.....	.....	to	50.00	to .....	.....	to .....	.....	to
Tulips, Daffodils.....	.....	to 3.00	3.00	to 4.00	2.00	to 3.00	4.00	to
Lilies.....	10.00	to 12.00	15.00	to	8.00	to 12.00	8.00	to 12.50
Callas.....	.....	to .....	.....	to	8.00	to 10.00	8.00	to 10.00
Lily of the Valley.....	3.00	to 4.00	3.50	to 4.00	3.00	to 4.00	3.00	to 4.00
Gardenias.....	6.00	to 15.00	.....	to .....	.....	to .....	.....	to
Mignonette.....	1.00	to 3.00	6.00	to 10.00	1.00	to 3.00	2.00	to 3.00
Lilacs (100 bunches).....	.....	to .....	.....	to .....	.....	to	25.00	to 50.00
Peonies.....	.....	to .....	.....	to .....	.....	to	4.00	to 6.00
Adiantum.....	.....	to 1.00	1.50	to 2.00	.50	to 1.00	1.00	to 1.25
Smilax.....	12.00	to 15.00	15.00	to 18.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, strings.....	40.00	to 50.00	50.00	to 75.00	40.00	to 50.00	25.00	to 50.00
" " & Spren. (100 bchs.)	to 25.00	20.00	to 30.00	25.00	to 50.00	25.00	to 50.00

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Joseph Breck & Sons,

51 and 52 N. Market St., Boston.
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ARAUCARIAS

A. Leuthy & Co., Roslindale, Mass.
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ASPARAGUS

C. Elsele,
11th and Roy Sts., Philadelphia, Pa.
For page see List of Advertisers.
Asparagus plumosus nanus and Sprengerii, 2 1-2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Elllicott St., Buffalo, N. Y.

	Per 100
1000 3 in. pots <i>Asparagus Sprengerii</i> , \$3.00	
2000 2 1-4 in. pots <i>Enchantress Carnation</i>	2.50
3000 2 1-4 in. pots <i>Boston Ferns</i>	3.00
200 3 in. pots <i>Lemon Verbena</i>	6.00
200 3 1-2 in. pots <i>Rose Geraniums</i>	7.00
2000 3 1-2 in. pots <i>Geraniums</i>	7.00
2000 2 1-4 in. pots <i>Glechoma</i> and <i>German Ivy</i>	2.00
1000 3 1-2 in. pots <i>Tomato</i> , "The Comet"	4.00
Cohanzie <i>Carnation Greenhouses</i> , New London, Conn.	

ASPARAGUS SEED

S. S. Pennock-Meehan Co., Philadelphia.
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Novae-Angliae Asters, strong, \$3.00 per 100; \$25.00 per 1000. Ellsworth Brown & Co., Seabrook, N. H.

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Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

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C. Elsele, 11th and Roy Sts., Phila.
Spring Bedding Plants.
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R. Vincent, Jr., & Son, White Marsh, Md.
For page see List of Advertisers.

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Spring Bedding Plants in variety at auction every Tuesday and Friday during spring season. Purchases made on order. Mail your bid. N. F. McCarthy & Co., 84 Hawley St., Boston.

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Tuberous Begonias.

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A. T. Boddington, 342 W. 14th St., New York.

Tuberous Begonias.

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Begonia Dew Drop, 2 1-2 in., \$1.50 per 100; \$15.00 per 1,000. S. W. Carey, Florist, Urbana, Ohio.

Begonia Gloire de Lorraine. Extra fine, 2 1-4 inch pot. Leaf cutting \$12 per 100; \$100 per 1000. Delivery May 1st. Julius Roehrs Co., Rutherford, N. J.

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Raspberry Plants, 7,000 Gregg Black Raspberry, at \$5 per 1,000. Albert Lawrence, Macedon, N. Y.

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BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

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BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

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J. M. Thornburn & Co., 33 Barclay St., New York.

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A. T. Boddington, 342 W. 14th St., N. Y.
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Rickards Bros., 37 East 19th St., New York.
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H. F. Michell Co., Philadelphia.
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Johnson Seed Co., 217 Market St., Phila.
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John Scheepers & Co., 4-6 Old Slip, N. Y.
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C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

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Caladium Esculentum, 7 to 9 in., \$2.50 per 100; 9 to 11 in., \$4.50 per 100. T. W. Wood & Sons, Seedsmen, Richmond, Virginia.

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The Conard & Jones Co., West Grove, Pa.
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10,000 fine potted Cannas, 20 leading sorts, \$4.00 per 100. Send for bargain list of all seasonable stock. Benj. Connell, West Grove, Pa.

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Carnation Mabelle.

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S. S. Skidelsky, 824 N. 24th St., Phila.
Rose Pink Enchantress.

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Chicago Carnation Co., Joliet, Ill.
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A. J. Guttman, 43 W. 28th St., New York.
Carnation Imperial and Pink Imperial.
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F. Dorner & Sons Co., Lafayette, Ind.
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N. Y. Cut Flower Co., 55-57 W. 26th St., New York. J. A. Millang, Mgr.
Carnation Winsor Blooms.
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Harlowarden Greenhouses, Greenport, N. Y.
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Harlowarden Greenhouses, Greenport, New York.
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Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting, 383 Elllicott St., Buffalo, N. Y.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

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John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

Evergreens of large size from 6 to 16 feet in variety frequently transplanted. Ask for list. Samuel C. Moon, Morrisville, Pa.

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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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Giant Hybrids transp'l, ready for 2-in. and 3-in., \$3.50 100; \$30.00 1000. Plants grown of seed taken from the cream of my well known strain. Christ. Winterlich, Cyclamen Specialist, Defiance, Ohio.

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David Herbert & Son, Atco, N. J.
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Dahlias, fine, strong bulbs. Also cannas. Write for price list. O. B. Stevens, Shenandoah, Iowa.

Dahlias, 150 varieties, including many European novelties, 3c. and up. What have you to exchange for dahlias? New list free. Adams Supply Co., Lowell, Mass.

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A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

FERNS

Baur Floral Co., Erie, Pa.
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A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitman.

Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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Baur Floral Co., Erie, Pa.
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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.

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Decorative Evergreens.

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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

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Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

GERANIUMS

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Wm. S. Herzog,
Morris Plains, N. J.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

GLADIOLI. Groff's Hybrids, Gold Medal and Silver Trophy Strain, Crawford Strain, Farquhar Hybrid seedlings. JOHN H. UMPLEBY, Lake View, N. Y.

GLASS

Boston Plate & Window Glass Co., Boston.
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GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE BUILDING MATERIAL.

D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.

Lord & Burnham Co.,
1133 Broadway, New York.
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Weathered Co., Box 789, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GREENHOUSE BRACKETS

Buxton & Allard, Nashua, N. H.
Economy Greenhouse Bracket.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HANGING BASKETS

Wm. E. Hielscher, 40 Broadway, Detroit, Mich.
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Fancy and Dagger Ferns.

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The Kervan Co.,
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

Fancy Ferns.
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E. A. Beaven, Evergreen, Ala.
Fadeless Sheet Moss.
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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

In writing to Advertisers kindly mention Horticulture

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Funkia variegata clumps, \$6.00 per 100.
H. Pladeck, Elmhurst, N. Y.

Yucca Filamentosa, No. 1, 4c.; *Iris Sibirica*, 3c. Ellsworth Brown & Co., Seabrook, N. H.

Heimerocallis Thunbergii, 12 inch clumps, \$20 per 100.

Yucca filamentosa, strong plants with 50 leaves, \$20 per 100.

Hibiscus moscheutos, 3 yrs., \$4 per 100.
Yucca gloriosa, \$10 per 100. Ask for trade list of hardy nursery stock. Samuel C. Moon, Morrisville, Pa.

HARDY PLANTS

Vick & Hill Co., Rochester, N. Y.

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Kroeschell Bros., 35 Erie St., Chicago.
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Johnston Heating Co., 1133 Br'dway, N. Y.

W. W. Castle, 170 Summer St., Boston.
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HOLLYHOCKS

Hollyhocks. Large field-grown plants, \$3.00 per 100. Double in separate colors of red, white, pink, yellow and maroon; also the Allegheny strain. Send for catalogue of hollyhocks, dahlias and hardy plants. W. W. WILMORE, Box 382, Denver, Colo.

HONEYSUCKLES.

Golden Honeysuckles, 7c. Ellsworth Brown & Co., Seabrook, N. H.

HORSES

Useful work-horses for florists' spring work; also florists' delivery wagons, good as new. Edward Higgins, 1 West 28th St., New York.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.

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Lord & Burnham Co., 1133 Broadway, N. Y.
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HOT WATER CIRCULATOR

W. W. Castle, 170 Summer St., Boston.
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HYDRANGEAS.

Hydrangea paniculata grandiflora, 3 ft., 8c. Ellsworth Brown & Co., Seabrook, N. H.

INSECTICIDES.

Nicotine kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Louisville, Ky.
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IVIES

Wesley Wait, Newburgh, N. Y.
English Ivies.
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English Ivy, 3 1-2 in., 3 to 5 ft., \$6.00 per 100. Cash. Benj. Connell, West Grove, Pa.

JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.

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A. Leuthy & Co., Roslindale, Mass.
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Kramer Bros. Foundry Co., Dayton, Ohio.

LAWN MOWER

Clipper Lawn Mower Co., Dixon, Ill.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.

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Gude Bros. Co., 1214 F St., Washington, D. C.

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Eyres, 11 N. Pearl St., Albany, N. Y.
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Young & Nugent, 42 W. 28th St., N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.

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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Ave. and 31st St., Chicago.

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Wm. H. Rock Flower Co., Kansas City, Mo.
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Atlanta Floral Co., Atlanta, Ga.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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LILY OF THE VALLEY

John Scheepers & Co., 4 and 6 Old Slip, New York.
Cold Storage.

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LIVISTONIAS

Livistonia Rotundifolia. Well leaved and clean, \$6, \$9, \$12 per doz. J. Roehrs Co., Rutherford, N. J.

LOBELIAS

NEW—NEW—NEW
LOBELIA KATHLEEN MALLARD
Fine double flower; fine, strong 2 1-2-inch pot; \$5.00 per doz.
Quantity limited. Order at once.
J. Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MOON VINES

Godfrey Aschmann, 1012 Ontario St., Phila.
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NIKOTEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.
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NURSERY STOCK

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American Nursery, Bagshot, England.
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Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.
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The Conard & Jones Co., West Grove, Pa.
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The F. E. Conline Nursery Co., Stratford, Conn.
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The Wm. H. Moon Co., Morrisville, Pa.
American Arborvitae.
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Oak Hill Nurseries, 114 Poplar St., Roslindale, Mass.

Berberis Thunbergii.
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Henry A. Dreer, Philadelphia.
Rhododendrons, Boxwood Edging, Hardy Shrubs and Border Perennials.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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Nursery Stock. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

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Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Carrillo & Baldwin, Secaucus, N. J.
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A. Held, 11-19 William St., New York.
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Selbrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.

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Jos. A. Manda, 191 Valley Road, W. Orange, N. J.

Orchids, Orchid Baskets, Peat.
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Ordenez, De Nave & Co., Madison, N. J., Box 105.

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Selbrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Large, strong transplanted Pansy Plants. Dreer's Royal Exhibition and Vaughan's International, \$1.00 per 100; \$7.50 per 1,000; smaller transplanted, \$5.00 per 1,000. Send for sample and price list of other plants. Frank Shearer & Son, Binghamton, N. Y.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

Peonies. 200 strong undivided five year old clumps; pink sorts only, \$25 per 100. Ask for trade list of ornamental nursery stock. Samuel C. Moon, Morrisville, Pa.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y. For page see List of Advertisers.

POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

RAFFIA

Raffia, prime long fiber, sound and strong, ten cents the pound, nine dollars the hundred pounds; cash with order, please. A. Rolker & Sons, New York. P. O. Box 759.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng. For page see List of Advertisers.

ROSES

M. H. Walsh, Woods Hole, Mass. Hardy Roses, H. T. Roses and Ramblers. For page see List of Advertisers.

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Bay State Nurseries, No. Abington, Mass. For page see List of Advertisers.

A. N. Pierson, Cromwell, Conn. Grafted Roses, Own-Root Beauties. For page see List of Advertisers.

Montrose Greenhouses, Montrose, Mass. Grafted Bride and Bridesmaid Roses. For page see List of Advertisers.

West View Greenhouses, Madison, N. J.

Low-budded roses, No. 1, \$95.00; No. 1-2, \$65.00 per 1000. H. T. Jones, Elizabeth, N. J.

American Beauties, 2 1-2 in., \$8.00 per 100; \$75.00 per 1000. Chas. H. Totty, Madison, N. J.

Tuberose, dwarf excelsior pearl; first size, \$1.00 per 100; \$7.50 per 1000; second size, 60c. per 100; \$5.00 per 1000. T. W. Wood & Sons, Seedsmen, Richmond, Virginia.

Own root roses, 2 years. C. Ramblers. \$7.00; Dorothy Perkins, P. W. and Y. Ramblers, \$5.00; H. P. roses and Baby Ramblers, \$8.00 per 100. Gilbert Costich, Rochester, N. Y.

Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1-4-in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SALVIAS

C. Elsele. 11th and Roy Sts., Philadelphia, Pa. Salvia Bonfire. For page see List of Advertisers.

Salvia Bonfire, flats once transplanted, 1c. each; 2 1-4 in. pots 2c.; 3000 now ready; order now; fine plants. Hammerschmidt & Clark, Medina, O.

Salvias, 2 1-2 in., \$1.50 per 100; \$15.00 per 1000. Achyranthus, \$1.50 per 100; \$15.00 per 1000. S. W. Carey, Florist, Urbana, Ohio.

SEEDS

T. J. Grey & Co., 32 So. Market St., Boston, Mass. For page see List of Advertisers.

Joseph Breck & Sons. 51 and 52 N. Market St., Boston, Mass. For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia. "New Creations" in Bush Limas. For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., N. Y. For page see List of Advertisers.

Henry A. Dreer, Philadelphia. For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y. For page see List of Advertisers.

H. F. Michell Co., 1017 Market St., Phila. For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y. Aster Seed. For page see List of Advertisers.

W. W. Rawson & Co., 5 Union St., Boston.

Hjalmar Hartmann & Co., 12 Stormgade, Copenhagen, Denmark. Cauliflower and Cabbage Seed. For page see List of Advertisers.

Rickards Bros., 37 E. 19th St., New York. For page see List of Advertisers.

Johnson Seed Co., 217 Market St., Phila. For page see List of Advertisers.

R. & J. Farquhar & Co., 6-7 So. Market St., Boston. For page see List of Advertisers.

Wm. Elliott & Sons, 201 Fulton St., N. Y. For page see List of Advertisers.

C. C. Morse & Co., 171-73 Clay St., San Francisco, Calif. For page see List of Advertisers.

I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

Surplus Garden Peas—50 bu. Alaska, \$3.25 per bu.; 40 bu. First and Best, \$2.00 per bu. New crop northern Michigan grown; none better. W. F. Allen, Salisbury, Md.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston. Pulverized Sheep Manure. For page see List of Advertisers.

SHEET MOSS

E. A. Beaven, Evergreen, Ala. For page see List of Advertisers.

SHRUBS.

Japanese Wistarias, 8c.; Berberis Thunbergii, 12 to 18 in., 3 1-2c.; Hibiscus, C. Eye and Pink, 3c.; Norway Spruce, 1 1-2 to 2 1-2 ft., 8c. Ellsworth Brown & Co., Seabrook, N. H.

1000 Large Shrubs 5 to 8 ft. assorted for \$150. Ask for trade list of ornamental nursery stock. Samuel C. Moon, Morrisville, Pa.

SMALL FRUIT PLANTS

Dewberry plants, Lucretia and Austin, \$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00 per 1000, \$25.00 per 5000; Turner red raspberry plants, \$6.00 per 1000, \$25.00 per 5000. W. F. Allen, Salisbury, Md.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

Spiraea, Van Houttii, 2 to 3 ft., 6c.; 18 to 24 in., 4c. Ellsworth Brown & Co., Seabrook, N. H.

STEAM TRAP

E. Hippard, Youngstown, O. For page see List of Advertisers.

STRAWBERRY PLANTS

Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

THERMOSTATS

Fire and Frost Alarm. Heat regulators. Brown Alarm Co., Denver, Colo.

VEGETABLE PLANTS

50,000 small horseradish sets, 25c. per 100; \$2.50 per 1000. S. J. McMichael, 142 Larkin St., Findlay, O.

50,000 large 4-year old Barrs Mammoth Asparagus roots, \$6.00 per 1000; \$25.00 per 5000. (500 will fill a sugar barrel.) Address W. F. Allen, Salisbury, Md.

Now ready to ship, Jersey Wakefield, Winnigstadt, and Market Gardener's Early Cabbage, No. 1 stock, 15c. per 100, \$1.25 per 1000. Tomato plants, Dwarf Champion, Spark's Earliana, Lorillard King of the Earliest, 15c. per 100, \$1.25 per 1000. S. J. McMichael, 142 Larkins St., Findlay, O.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y. For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y. For page see List of Advertisers.

Weathered Co., 46-48 Marion St., N. Y. For page see List of Advertisers.

Foley Mfg. Co., 471 W. 22nd St., Chicago. For page see List of Advertisers.

The Advance Co., Richmond, Ind. For page see List of Advertisers.

J. C. Moninger Co., 421 Hawthorne Ave., Chicago. The Chicago Lifter.

VENTILATING MACHINERY. New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1133 Broadway, N. Y.

VINCAS

Vinca minor (myrtle), \$20.00 and \$30.00 per 1,000. E. K. Mooney, Madeira, O.

10,000 vincas 2 1-2 in., fine, \$2.50 per 100; \$20.00 per 1000. R. Cuttings same, \$1.00 per 100; \$7.00 per 1000. Cash, please. Benj. Connell, West Grove, Pa.

VIOLETS

H. R. Carlton, Willoughby, O. Violet, Gov. Herrick. For page see List of Advertisers.

WILD SMILAX

E. A. Beaven, Evergreen, Ala. Southern Smilax. For page see List of Advertisers.

WIREWORK

Reed & Keller, 122 W. 25th St., N. Y. For page see List of Advertisers.

Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 88 40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

All standard frames in stock. Special designs made to order in hurry-up time. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

In writing to Advertisers kindly mention Horticulture

WIRE SUPPORTS

The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

WHOLESALE FLORISTS**Boston**

N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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Detroit

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Issued April 9, 1907.

- 849,396. Cultivator. William C. Hinton, Dansburg, Ga., assignor of one-half to John H. Sayer, Pistol, Ga., and one-half to Calloway Croft, Danburg, Ga.
- 849,575. Plow. Jonathan H. Samuels, Moline, Ill., assignor to D. M. Sechler Carriage Co., Moline, Ill.
- 849,577. Combined Plow, Shovel, and Separator. George T. Sebrell, Alsea, Oregon.
- 849,659. Stalk Cutter. Joseph P. Cooper, Farmersville, Tex.
- 849,787. Process of growing Sweet Potatoes and other Tubers. George Hitz, Indianapolis, Ind.
- 849,928. Harrow Tooth. Davit M. Smith, Sixmile, Ark.
- 849,988. Hand Seeding Implement. Eppy W. Ferguson, Owensboro, Ky., assignor of one-half to Stinson Lambert, Owensboro, Ky.
- 849,956. Cultivator Attachment. John J. Young, Denver, Colo.
- 849,993. Disk-Arrow Scraper. Arthur C. Gaylor, Galesburg, Ill., assignor to Galesburg Coulter-Disc Co., Galesburg, Ill.
- 850,066. Ditching Plow. Charles T. Howell, Kirkman, Iowa.
- 850,008. Grain and Straw Separator. James Hutcheson, Johnson county, Kas.
- 850,011. Plow. John B. Jobson, Atlanta, Ga.
- 850,012. Wire Guide for Check Row Planters. William F. Jogerst, Kent, Ill.

Issued April 16, 1907.

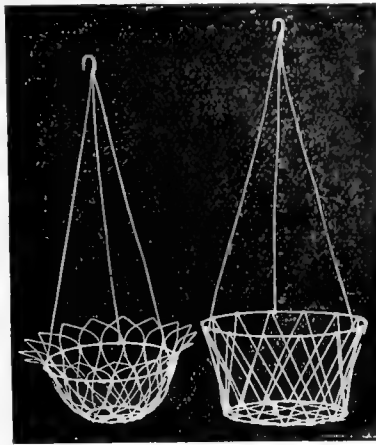
- 850,162. Plow. Nile Jennings, Cornmant, Minn.
- 850,228. Rake. Andrew Jackson, Winnetaka, Ill.
- 850,249. Combined Planter and Fertilizer Distributer. George T. Purvis, and John King, Wilson, N. C., assignors to A. J. Joyner, Wilson, N. C.
- 850,296. Harrow. William C. Cook, Schaller, Iowa.
- 850,418. Grass Gathering Receptacle. Levi Brown, Richmond, Ind., assignor to F. & N. Lawn Mower Co., Richmond, Ind.
- 850,482. Agricultural Implement. Fredrick W. Miller, Caledonia, N. Y.
- 850,520. Cultivator. William E. Butterfield, Ventura, Cal.
- 850,717. Plow Attachment. Alpheus Arter, Lisbon, Ohio.
- 850,715. Root and Stalk Pulling Machine. Joseph L. Anders, Pittsbridge, Texas.
- 850,736. Hoe. Duncan B. Curry, Jr., Agricultural College, Miss.
- 850,861. Cultivator. Lewis E. Waterman, Rockford, Ill., assignor to Emerson Mfg. Co., Rockford, Ill.

Horticulture's trump cards: Originality, forcefulness, superior reading matter, no muzzle, friends everywhere.

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HANGING BASKETS

State Quantity wanted and will be pleased to quote prices.

W. E. HIELSCHER

Wire Works
40 Broadway, DETROIT, MICH.

CUT FLOWER MARKET REPORTS.

(Continued from page 633).

go fairly well. A limited supply of Chateau, Wellesley and Kate Moulton is in evidence. Carnations are more plentiful but the market is healthy enough to absorb the cut at satisfactory prices. Sweet peas are still plentiful and good, and bring good figures considering the season. The lily of the valley market is rather sluggish, but the product is gilt-edged. Some very good double violets are well received and a surprise for so late. In orchids Cattleya Mossiae has the call. There are a few oncidiums and dendrobiums, but not enough to cut much figure. Green market about as last reported.

ST. PAUL AND MINNEAPOLIS

Trade the past week was very quiet. Rain and heavy snowstorms kept the buyers at home and increased the accumulation of stock materially. Roses dropped \$1 and \$2 per 100 on some varieties. Carnations have maintained the prices nicely. Planting of nursery stock has been carried on quite extensively, the few days the weather would permit.

WASHINGTON

The unprecedented damp, cool weather of the past week still continues. Outside vegetation is practically at a standstill, and, in consequence, the shrubbery that has braved the clouds and blossomed, sells readily and at good prices. Carnations are still scarce, and prices stiff. All greens are scarce, particularly asparagus and smilax. Sweet peas are of unusually good quality, owing to the cool weather, and sell readily. A particularly fine line of hydrangeas are shown and sell at good prices. Geraniums are in abundance, but move slowly; buying for outdoor planting being very backward.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

HORTICULTURE needs a wideawake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

WANTED—Single man as assistant rose grower on commercial place. Steady position to good man. Give reference from last place and state wages expected with board. Dean & Co., Little Silver, N. J.

WANTED—Good active young man, experienced in rose growing under glass. Good salary. Address B, care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—An experienced rose grower for commercial place near Boston. Address D. J. W., care of HORTICULTURE.

WANTED—A section man for Roses. Address L. B. Coddington, Murray Hill, N. J.

SITUATIONS WANTED

WANTED

POSITION AS SUPERINTENDENT AND GARDENER on private estate. English. Life experience in all branches of the profession. American and European references of the highest order. Married, no children.

E. DAY (Care C. Bond)

222 St. Mark's Square

PHILADELPHIA

SITUATION WANTED—American, 33 years of age; can qualify in various branches of horticulture; can take full charge of commercial establishment, where first class or fancy stuff is grown. Experienced in making up, buy or selling, also hybridizing and experimental work. Strictly sober, well recommended. Address E. A., care HORTICULTURE.

SITUATION WANTED—American, 23 years of age; has qualified in various branches of horticulture; can take full charge of greenhouses where general stock is grown, and grounds, etc. Specialist in water-lilies, botanical and native plants. Understands herbarium work, etc. With recommendations. Address H. P., care HORTICULTURE.

We can with pleasure recommend the services of a skilled gardener and orchid grower to any lady or gentleman requiring the services of such a man. Apply Carrillo & Baldwin, Secaucus, N. J.

WANTED—Situation as Head Gardener on private place; capable of taking care of orchids, ferns, palms, roses, etc. Best of references. Address N., care of HORTICULTURE.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

FOR SALE

FOR SALE.

Desirable Greenhouse Cemetery, directly opposite Spring Forest Cemetery, Binghamton, N. Y. Large and increasing demand for Funeral Designs and Bedding Stuff; care of cemetery plots big item in receipts. A dwelling house, 10,000 feet of glass, land comprising twenty city lots. Paying business and open chance for increase. Sold on account of advance in years. Apply to James B. Tully, 47 Spring Forest Ave., Binghamton, N. Y.

FOR SALE—Greenhouse Pipe

4-in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

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Is Your Name In The Above List? If Not, Why Not?
?

POT MAKERS FOR 140 YEARS

A. H. HEWS & Co. Inc.

CAMBRIDGE, MASS. FLORIST

GREENHOUSES BUILDING OR CON- TEMPLATED.

New.

Osage, Ia.—W. S. Hall, one carnation house, 33x100.

Wichita, Kan.—W. H. Culp & Co., range of houses, each 23x100.

Fairbury, Ill.—Alexander Milne, two houses, one 28x68, one 30x58.

Bound Brook, N. J.—Thos. Young, range of houses, 500 feet long.

Quincy, Ill.—F. W. Heckencamp, Jr., two houses, one 14x65, one 32x100.

Additions.

Beverly, Mass.—H. F. Winslow, one house.

Ottawa, Ont.—Graham Bros., range of houses; Wm. Sylvester, range of houses; A. Keock, one vegetable house, 28x100.

INCORPORATED.

A charter has been granted to the Hoopes Bro. & Thomas Company, West Chester, Pa., to include Abner Hoopes, W. W. Hoopes, C. E. Cattell, H. C. Cattell and Harvey Gourley, with capital stock of \$10,000. Organization will be effected later.

The Munk Floral Company, with a capital stock of \$20,000, has been incorporated at Columbus, Ohio. H. M. Munk, Lida P. Munk, and H. C. Park are the incorporators of this new establishment; a large growing plant will be erected and operated on the north side of the city.

A reorganization of the Blake Steam Pump Company took place at Fitchburg, Mass., on May 4, when a meeting of men interested in the affairs of the company was held, who elected officers and took necessary steps to apply for a charter of incorporation. The newly elected officers are: President, Herbert N. Blake; clerk, Alvah M. Levy; treasurer, Herbert E. Jennison.



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FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
170 Fulton St.,
NEW YORK


BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

SLUG SHOT



NIKOTEEN APHIS PUNK
THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
STRONGEST AND MOST UNIFORM
PRICE 60¢ PER BOX OF LONG SHEETS \$6.50 PER CASE OF 12 BOXES
NIKOTEEN
LIQUID
FOR SPRAYING OR VAPORIZING
PRICE \$1.50 PER PINT BOTTLE \$13.00 PER CASE OF 10 PINT BOTTLES
NICOTINE MFG. CO. ST. LOUIS MO.



The Best Bug Killer and Bloom Saver

For PROOF

Write to

P. R. Palethorpe Co.
LOUISVILLE, KY.

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Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 2 1/4 " " 5.25	60 8 " " 3.00
1500 2 1/2 " " 6.00	
1000 3 " " 5.00	HAND MADE
800 3 1/2 " " 5.80	48 9 in. pots in crate \$3.60
500 4 " " 4.50	48 10 " " 4.80
320 5 " " 4.50	24 11 " " 3.60
144 6 " " 3.16	24 12 " " 4.80
	12 14 " " 4.80
	6 16 " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower . . POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money

W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.

**NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL.** For particulars address

John G. Esler, Saddle River, N. J.

KILLS INSECTS in Garden or Greenhouse. Sold by Seed Delivers. For pamphlet address

B. HAMMOND, Fishkill-on-Hudson, N. Y.

**Clipper
Lawn
Mower
Co. DIXON,
ILL.**



The Mower

that will kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.

The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price; No. 1—12-inch Mower \$5; No. 2—15-inch Mower \$6; No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8. Send draft money-order or registered letter. In writing advertisers, mention Horticulture

CYPRESS SASH BARS
82 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

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NEPONSET, BOSTON, MASS.

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Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

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PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

USE THE BEST.
Economy Greenhouse Brackets
are used by leading growers everywhere. Send for price list and descriptive circular.
BUXTON & ALLARD, Dept. A, Nashua, N. H.

Good Circulation

You get it all the time if you install the
ELECTRIC CIRCULATOR

Write to Robert Simpson, Clifton, N. J.; Julius Roehrs Co., Rutherford, N. J.; J. N. May, Summit, N. J.; F. R. Pierson Co. Scarborough, N. Y.; Joseph Fuller, Leominster, Mass.; Perennial Gardens Co., Toledo, O.; or Christ. Winterich, Defiance, O. The Circulator is working in each of these establishments and giving full satisfaction. Write for particulars of our new

STEEL PLATE BOILER

built especially for hot water greenhouse heating. We do piping and fitting according to most approved methods, in economical manner and with satisfaction guaranteed.

W. W. CASTLE

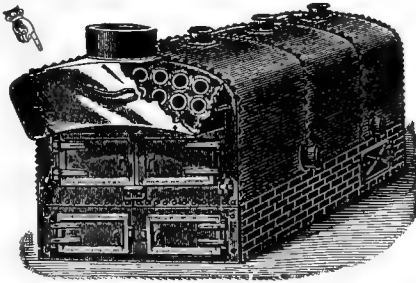
HEATING ENGINEER

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THE KROESCHELL BOILER

is the only perfect Hot Water Boiler. Made in 15 sizes, heating **6000 to 50,000 sq. ft. glass** to **60° at 15° below zero.**

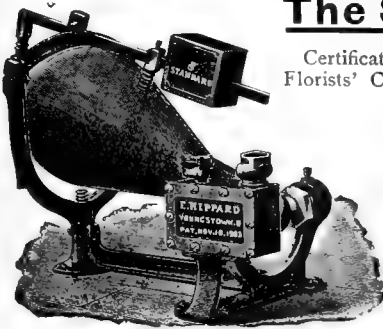
Prices and Catalogue on application



KROESCHELL BROS. CO.

35 Erie Street, CHICAGO

The Standard Steam Trap



Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

E. HIPPARD, Youngstown, Ohio

GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.

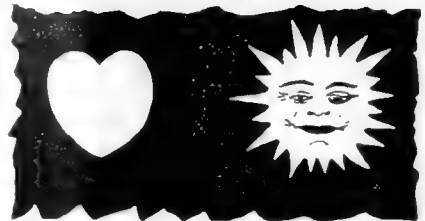
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WEATHERED COMPANY

BOX 789, NEW YORK

GREENHOUSE BUILDING AND HEATING

Send for Catalogue



ALL HEART SUN DRIED

CYPRESS

There is no wood its equal to resist decay when it is **FREE of SAPWOOD** and **SUN DRIED IN THE AIR**. One piece of sap in a house will cause more trouble and expense than many times the difference in cost between the best and sappy material. Kiln drying destroys the vitality of any wood.

We Guarantee Our Cypress

TO BE

Without Sapwood and Air Dried.

Send for free catalogue of

GREENHOUSE MATERIALS.

Foley Mfg. Co.

Western Avenue and 26th Street, CHICAGO.

Our visiting friends are heartily welcome to call and see us at our handsome new factory. Transfer from any West Side street car to S. Western Ave. and get off at 26th St.

The Visible Features



are not the only ones in the **Advance Ventilating Apparatus** — even more important are those beneath the surface, its mechanical construction, its principles, its careful workmanship in details that makes it the powerful superior line — all yours at reasonable profits and prices.

The Advance Co. RICHMOND, IND.

S. JACOBS & SONS

Manufacturers of GULF CYPRESS

GREENHOUSE MATERIAL

Jobbers of

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Catalogue and Prices Upon Request.

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Why not try

ANCHOR GREENHOUSE HOSE

on your next order.

Plant Bed Cloth protects from frost, insects, etc., and still allows free circulation of air.

Mineralized Rubber Co.

18 Cliff Street, New York

R. TONAWANDA, N. Y.

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KING CONSTRUCTION CO.
GREENHOUSE CONSTRUCTION AND EQUIPMENT

WRITE FOR CATALOGUE AND PRICES

Holds Glass Firmly

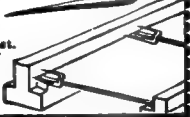
See the Point at

PEERLESS

Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DEER, 114 Chestnut St., Phila., Pa.

FULL SIZE No 2



H AND O



LET'S GET DOWN TO FACTS

Are you looking for trouble? If you are, you want an all-cypress house, with its heavy wooden plate, nailed-on sash bars and wood posts, for they are sure to rot out in short order. This cut shows how our kind of house looks, with its steel plate, sash bar bracket and steel post. There's only one thing for an up-to-date, careful buyer to do, and that is, get in touch at once with us, so we can explain all the points of our house of endurance.

HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.

Manufacturers of Heating and Ventilating Apparatus.

1170 Broadway,

NEW YORK.



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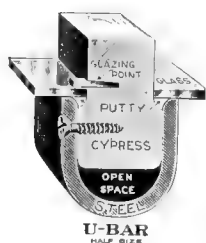
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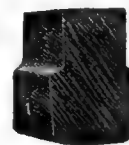
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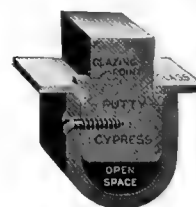
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HORTICULTURE

Vol. V.

MAY 18, 1907

No. 20



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3½ in. Pots, 12.50 per 100

Ready to Pot On or Line Out in the Field

Thomas Roland
NAHANT, MASS.

Ornamental Conifers

(Retinospora, continued from Page 522)



Abies pungens glauca

Retinospora pisifera has many sports. The best are: *p. aurea*, which is identical with the type but yellow colored; *p. aureo variegata*, a shorter growing yellow variegated form; *p. stricta lutescens*, of erect habit and yellowish in color; *p. nana*, a very dwarf, round-growing little plant.

Retinospora plumosa is a different type of *pisifera*, with much finer growth and needles very open. The different forms of it are: *Aurea*, of a nice yellow color; *pl. lutescens* or *argentea*, dwarfer in growth, more compact, broader than it is tall, of a pale yellowish color; *pl. albo-spica*, thickly spotted with white, but when in good growing condition this variety often reverts to the type.

Filifera, another type of *pisifera*, grows to a certain size and makes nice bushy little trees with long cord-like pendulous shoots, good to isolate on the lawn. *R. fil. aurea*, the same, bright yellow-colored; *fil. aureo-variegata*, with yellow variegated shoots; *fil. gracilis* is of dwarf habit, more compact and thinner, more numerous shoots of yellowish color.

Retinospora squarrosa, which is a sport from *pisifera*, has its needles wide open of a bluish color, and is very effective on the lawn, where it needs, like *pisifera*, a sheltered place, being a little tender. *Squarrosa* has to be clipped; it dies out in the centre when of a certain age and looks bare. *Sq. Veitchii*, a thick compact dwarf form, has the foliage more heather-like; *sq. decussata*, the same as type, smaller and more compact; *sq. sulfurea* is of a nice yellowish color in spring while growing; seems to be hardier than the others.

R. Sanderi has very heather-like foliage of blue color; dwarf in habit, round in form; seems to be a sport from *squarrosa*, too.



Abies concolor

Nearly all the forms of *Retinospora pisifera* make good sized trees, good to isolate on the lawn as well as in big beds.

THUYA

The Thuyas are divided into *Thuya*, *Thuyopsis* and *Biota*. *Thuya occidentalis*, the common arbor-vitae, is of pyramidal outline. It does not grow to a big size; it likes to grow near the water, brooks or lakes, where it retains its foliage and freshness much better than in dry soil, especially near the seashore, where the foliage turns yellow, burns and falls off. It is a tree which withstands the severest winter when near the water; in the Adirondacks and in Canada in the swamps at 40 degrees below zero you can see them as green as grass, while here some die at 15 degrees. It is a well-known fact that conifers and evergreens in general bear severe cold when surrounded by dampness, but not by stagnant water.

There are a great many forms of arbor vitae in cultivation; a few of the most distinct are as follows: *Thuya occidentalis*, *compacta pyramidalis*, *fastigiata columnaris* and a few others are narrow, compact, erect growing trees; *Bodmerii* has the shoots flat lycopodium-like; *plicata* has them twisted; both are narrow, erect in growth. *Buchananii* is broadly pyramidal in form with erect cord-like twigs of a grayish-green color. *Pendula* has the branches pendant. *Aurea* G. Peabody, *Cloth of Gold*, var. *Waxen*, *Warcana lutea*, *Ver vaeneana*, *Ellwangerana aurea*, all grow to a good size, pyramidal, more or less compact, and lighter or darker yellow in color. *Alba* *Queen Victoria* and *argentea* *Columbia* take in the fall a creamy-white color at the top of the growing shoots. *Douglasii* and *Spaethii* are two curious forms; the young shoots are long and cord-like, the leaves open only the second year and are

heather-like, the first one pendulous and yellowish-green, the other erect and dark green. *Ellwangeriana* has heather-like foliage which opens the second year, the young shoots short and cord-like; compact in growth. *Wareana*, also called *robusta*, is a coarse, compact, oblong-spherical growing little tree. *Lowii*, *umbraculifera*, *globosa*, *rotunda* and a few others are of spherical compact growth with coarser or finer foliage. *Recurva*, *nana*, *damosa*, *Little Gem*, are dwarf little trees of spreading habit good for rockeries. All these arbor vitae can be used to advantage isolated on small lawns, in beds, formal work and hedges.

Thuja plicata, *gigantea* or *Lobbii* are three different names for the red cedar of the Pacific coast. It is a beautiful tree which grows to a large size but unfortunately is not reliably hardy in our northeastern states. When young it looks like a broad robust-growing arbor vitae, lighter and glossy green in color. *Gracilis*, *aurea* and a few other forms of it are not any hardier.

Am. Ed. Ham.

To be Continued.

Amasonia Punicea

This beautiful winter flowering shrub deserves to be better known as a most useful commercial plant; a worthy rival in its rich coloring to *Poinsettia pulcherrima*. Though mentioned in Loudon's encyclopedia in 1822, it was reintroduced as a new plant from British Guiana in 1886 by Messrs. Veitch, but is by no means common today. The inflorescence is very brilliant, in the form of spreading bracts, of a rich vermilion-crimson; the leaves of bracts are arranged in pairs, longer at the base and graduated along the entire length of the racemes, which when well-grown are from 12 to 18 inches in length. The bract is the main feature of the plant and lasts fully two months in perfection; the tubular flowers are borne at the base of each pair of bract leaves, and are of a creamy white color and offer a pleasing contrast to the other parts of inflorescence. Though the flowers do not last long the bracts remain splendid for cut-flower arrangements, showing up brilliantly by artificial light.

The plant is of easy culture when its simple requirements are met. It is a stove plant but has a preference for a cold bottom stage and enjoys plenty of moisture during growth. Unlike the poinsettia, it is not of a deciduous nature, but requires a careful watering and partial rest when flowers are over. First year plants may be grown on into nice specimens the second year, carrying four or five bracts. As compost use turfy loam, leaf mould and a little peat and sand; it does not take kindly to gross feeding, but a little Standen's manure when bracts are developing is helpful; propagate by taking in the spring firm, fresh cuttings which are easily rooted in warm case; grow straight on, without any pinching into nice single-stem plants in 5-inch pots suitable for Christmas flowering. The smart, up-to-date florist will know at sight that if this plant can be successfully grown, it is just the color to meet a large demand for all decorative purposes.

Edgar Elwin

May 2, 1907.

The Elm-Leaf Beetle

As this insect is liable to occur again in alarming numbers this year, a few notes on its life history and the methods of treating it may be timely.

The beetle passes the winter in the adult stage in any place where more or less protection can be had from the inclemencies of the weather, such as out-buildings, sheds, steeples, hollows of trees, and even under sidewalks. If the weather is favorable, they appear during the last of April or the first part of May to feed on the unfolded leaves of the elm. When the foliage is far enough advanced to furnish food for the larvae, egg laying is commenced. Unlike a great many insects, this process continues for several days, a few eggs each day. The larvae appear five or six days after the eggs have been deposited and begin to feed on the under side of the leaves. The work of the larvae can therefore be distinguished from that of the adult beetles by the fact that the latter eat irregular, round holes in the foliage.

The grub is full-grown in from fifteen to twenty-five days, depending on the condition of the weather and the food supply. It then descends toward the ground and pupates in any convenient place, such as hollows of trees and crevices in the bark, and also in large quantities around the trunk of the tree at the base. Last summer in Providence larvae and pupae could be swept up by the quart from the folds of the burlaps which were placed on the trees for the gypsy moth.

A few days are passed in the pupa state, and a second brood of beetles appear from the first to the middle of July, and grubs of these are full-grown the latter part of August. Under favorable conditions a third generation may also appear, but generally the beetles of the second pass the winter.

As yet we have no parasitic insects which seem able to keep the beetles in check. Occasionally weather conditions are responsible for the destruction of a great many of the first brood. Birds also are effective enemies, but in cities where the English sparrow has taken possession, the insectivorous species have been driven out. It is partly for this reason that the insect is much more injurious in the cities and towns than in the woodlands.

The principal remedy is spraying, but because of the great resistance of the beetles to poisons it is necessary to use a kind that can be applied in large quantities without injuring the foliage. Lead arsenate has been found to be the best known remedy and should be applied at the rate of ten pounds to one hundred gallons of water. If the beetles are numerous at the beginning of the year, a spraying should be given just as soon as the leaves have unfolded. If this does not check the insect sufficiently, a second spraying can be given at the time the larvae of the first brood appear. Under most conditions this is the principal spraying of the season. If conditions are exceptionally favorable to the beetle, it may be necessary to make an application to destroy the second brood in August. Sometimes large quantities of the larvae and pupae of the insect can be destroyed by the application of kerosene emulsion or hot water when found on the trunk or around the base of the trees.

Banding the trees with sticky fly-paper or other material is of no use against this insect because the beetles fly actively and do not ascend the trunk in attacking a tree.

—Extension Department R. I. Col. of Agr. & Mech. Arts, Kingston, R. I.

British Horticulture

VISIT OF FRENCH HORTICULTURISTS

On several occasions parties of British horticulturists have paid a visit to the French nurseries. This visit is now to be returned. The Journal of the Federation Nationale des Syndicats Horticoles de France in Paris is making the arrangements amongst its readers for the trip, which promises to be unusually interesting. The visitors will arrive in London at the end of May in time to attend the summer show of the Royal Horticulture Society, in the Temple Gardens. This is the premier show, and the French visitors will have an opportunity of comparing British show methods with those of their country. Britishers who have visited the French shows usually get the impression that the growers in that country cannot excel the British ones as regards cultural skill, but in effective and artistic arrangement the French horticulturists are unbeaten. The trippers will take full advantage of their few days in London to see the chief attractions, such as Kew Gardens, described on the programme as the most beautiful botanical garden in the world, Hampton Court Gardens, Richmond Park, and the other Metropolitan open spaces. The instructive side of sightseeing will not be overlooked. The colony of glass belonging to Messrs. Rochford at Turnford Hall, where quantities of lilies are grown under the retarding method, will be inspected, in addition to the nurseries of Messrs. Rivers at Sawbridgworth, where fruit culture in pots is a specialty. It is also hoped to inspect the orchids of Messrs. Hugh Low & Co., Bush Hill Park, and the many rare plants at Chelsea, belonging to Messrs. Veitch & Sons.

SOIL INOCULATION

Some very interesting experiments in soil inoculation have in recent years been conducted by Professor Bottomley. It is due to scientists of this calibre that horticulturists have the advantage of modern research. If they had depended on the Board of Agriculture for assistance in this field of investigation they would have been sadly disappointed. Our Board is very much behind the American Department in this respect. The British Department, sometime ago, made an experiment with some material obtained from the United States, and this was reported as a disappointing failure. It subsequently transpired that the material had been kept in England for six months before the experiment was made, in spite of the fact that its vitality can only be depended upon for two years. These and other instructive facts were laid before a meeting of the Horticultural Club in London recently. Mr. Cuthbertson spoke of the advantages of soil inoculation for the poor land in Essex, where he resides. Professor Bottomley answered that the experiments made in that county had proved very successful.

FOR SCIENTIFIC RESEARCH

The scope of the Royal Horticultural Society's operations is now extended by the erection of a laboratory at the beautiful gardens at Wisley. This extension will enable the Society to pay an increased attention to scientific research. The subjects to be experimented upon include soil-sterilization by steam as a means of destroying plant pests which live in the soil; an investigation into the influence of sterilization on the plants cultivated in the soil; study of the bacterial flora of the soil; etherization of plants; and certain plant diseases. The usefulness of the Society will be immensely en-

hanced by this experimental work to accompany the trials of flowers, fruit and vegetables which form part of the Wisley work. The Society is now thoroughly equipped for aiding the gardener in solving the doubts and difficulties which arise. It has an excellent Scientific Committee whose deliberations are always of value. The Society's publications are also of incalculable assistance. The "Journal" issued quarterly has in recent years grown in bulk and usefulness. One of the Society's latest publications is an official report of the third international conference on genetics, held in London last year. The papers are admirable contributions to many important problems of plant life, and will be valued by all interested in the scientific side of horticulture.

THE DAY OF THE DAFFODIL

Lately I was able to see the golden array of daffodils on the famous nursery of Messrs. Barr & Sons. The firm have a wide selection of new and old friends and some of these are still costly favorites. Peter Barr, named after the head of the firm, is now catalogued at £21 a bulb. There were several unnamed seedlings to be seen at the nursery, indicating that the "last word" has not been said on this branch of horticulture. Splendid as is Peter Barr, with its bold graceful form, it is hoped to even excel this floral aristocrat. Amongst the leading varieties, King Alfred, a majestic bloom, fit for a monarch's name, retains its wide popularity. Mrs. George Barr is a white Ajax, of smaller dimensions. Eglehearti Royal Star is an imposing bloom, with sulphury wings and a broad flat cup of an orange red tint. The Bride may be regarded as one of the pick of the poeticus section. Others worth noting are P. R. Barr, Duchess of Westminster, Cleopatra, Maggie May, C. H. Curtis, Sabrina, Cloth of Gold, Shakespeare, etc. Ariadne has won many honors on the show table. It belongs to the early-flowering section, and its soft lemon-colored cup in an ivory white perianth usually attracts considerable notice. With this special attention being paid to the daffodil there is little chance of this charming subject losing its hold on the public.

W. H. Aclsett.

Magnolia glauca

(See Frontispiece.)

The beautiful magnolia which is the subject of our frontispiece this week is a native of the southern and middle States where it is found growing luxuriantly along the river banks and brooks. In the south the foliage is more or less evergreen. The northern limit of the tree is at Magnolia, Mass., the name of the town having been given for this reason. The flowers are creamy white and deliciously fragrant. By many, *Magnolia glauca* is considered the most beautiful of our American flowering trees. In flowering time the blooms are sold in enormous quantities by colored women on the streets of Washington and few passers there are who have not the price of a magnolia flower.

At the Arnold Arboretum may be seen a beautiful hybrid of *Magnolia glauca* called *Thompsoniana*. The other parent is *Magnolia tripetala*—the umbrella magnolia. The flowers of *M. Thompsoniana* are like those of *glauca* but three times enlarged. It flowers all through the summer but, unfortunately, it is not quite as hardy as either of its parents.

HORTICULTURE

VOL. V

MAY 18, 1907

NO. 20

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.
 Telephone, Oxford 292
 WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00: To Foreign Countries, 2.00: To Canada, \$1.50
ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;
 six months (26 times) 20 per cent.; one year (52 times) 30 per cent.
 Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass.
 under the Act of Congress of March 3, 1879.

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There never has been and never will be a more fitting time for those who shape the course of the various small bodies, such as florists' clubs and similar organizations, to work towards some practical means for permanent affiliation and intelligent co-operation between these associations and the national society. The manifest weakness of the parent society at the present time is the lack of this backing, and the S. A. F. will never attain its best possibilities until this much-needed support is in evidence. It has been well said that an enlightened patriotism knows no State boundaries. It is for the local organizations to awaken their members to a wider vision and a better realization of the fact that if anything really great and serviceable is to be accomplished the enemy of any one section or interest must be treated as the enemy of all. Let us hear less of the selfish plea of "local interests" and "limited territory" and seriously consider what course we may pursue to bring about a general and common advancement and permanent harmony through the adoption of uniform policies. Enemies and opposers to every wise movement are inevitable, but that need not disturb so long as we make it our business to acquire an intimate knowledge of what our profession needs and all co-operate toward the same great end of providing it.

A reckless policy and its results

In the same days' mail there comes to us from the north the plaint about trees ruined in the Maine orchards and nurseries through the depredations of meadow mice, and from the south the call for better protection of martins and swallows so useful as allies of the farmers in checking the invasions of the cotton weevil and other insect pests which, if unrestrained, would make all agriculture and all horticulture hopelessly impossible. Skunks and hawks and minks, they tell us, are needed to wage war against the destructive mice; orioles, blackbirds and swallows are invaluable in preying upon the ravaging insects. It is full time that people should consider these things. As usual, it takes a series of severe lessons and hard experiences to convince mankind that it is making a costly blunder. It seems very natural to hunt and destroy reptiles and small animals and birds but the day of reckoning comes in due time when Nature's delicate balance is rudely disturbed and that seems to be the cause of the present trouble. It is computed that the meadow mice have done fully half a million dollars' damage to nurseries and orchards in Maine during the past winter and scientists and statisticians are constantly telling us of the stupendous loss to crops throughout the country from insect depredations yet the indiscriminate slaying of the creatures which are our natural protectors against these ravages goes on with but little restraint and we find, further, the men to whom are entrusted the making of our laws often opposing with an inexplicable fanaticism measures for the saving of the forests which furnish shelter for these invaluable auxiliaries of the cultivator of the soil.

Get together In estimating the intrinsic value of last week's far-reaching accomplishment of the S. A. F. on behalf of the commercial florist, we should not undervalue the lesson it teaches of the great power of organization and the immense advantage in having at hand the means for the expression of unity of sentiment and action against the bully wherever and whenever he puts in an appearance.

Press Comments on the Express Rate Decision

An Inviting Opportunity.

The first reduction of rates under the 1906 amendments to the Interstate Commerce law have just been ordered by the Interstate Commerce Commission, on complaint made by the Society of American Florists against the United States Express Company.

If eminent corporation lawyers are so confident that Senator Foraker is right in holding the Rate law unconstitutional, here is an inviting opportunity for a test case, in which Senator Platt's corporation and three railroads can pool their confiscatory grievances.—*N. Y. World, May 7, 1907.*

May Make Test Case.

The first reduction of rates ordered by the Interstate Commerce Commission in the exercise of authority conferred upon that body under the amendments of 1906 to the interstate commerce law, affects both railroad and express companies.

The United States Express Company is Senator Platt's corporation. The railroad corporations interested are very powerful. It is not improbable that the first decision of the commission may be made a test case to determine the constitutionality of the rate regulation law. The first application of the law has apparently hit some of its bitterest enemies in a tender spot.—*Worcester (Mass.) Post, Tuesday, May 7, 1907.*

Work of New Rate Law.

It is a strange and by no means delightful situation which the express companies of the country now face because of the attempted extortion of one of their number. In future they must face the fact, fixed and inexorable, that their charges, like those of the railroads, are subject to review and reduction when necessary by the Interstate Commerce Commission. This is the first tangible evidence of the teeth with which the new rate bill is furnished. The first case of the kind, arising under the new federal rate law, has just been passed upon by the Interstate Commerce Commission with the consequence that Senator Platt's express company is ordered to beat a retreat from a radical advance in rates which it had made last year on cut flowers from New Jersey points to New York city. The advance was so extended, following up a previous marking up of the rate, as to give an impression of unreasonableness on the face of things, and it will be found difficult to quarrel with the commission in reaching the conclusion it does.

It is now up to the express company to obey the orders of the commissioners or appeal to the courts, and in view of the plain weakness of its case it is not likely to do the latter. The one certain thing is that it will not snap its fingers at the commission in the old familiar way of the past decade. It would be too expensive a gratification at \$5,000 a day, while the finger snapping was going on.—*New Britain (Ct.) Herald, Tuesday, May 7, 1907.*

Puncturing Corporate Reasoning.

In the first decision rendered by the Interstate Commerce Commission, affecting an express company rate, Commissioner Lane neatly punctures the fallacy of corporate reasoning. The complaint arose from an increase of 100 per cent. in the rate on cut flowers from New Jersey points to New York City—from 50 cents to \$1 per 100 pounds.

The express company pleaded the necessity for increase on account of the cost of delivery in New York, and attempted to show that it received little enough for the service from the new rate. First, it declared its contracts with the railroads for carriage compelled it to give them from 40 to 45 per cent. of the gross rate; second, its contracts with receiving agents gave them 20 per cent. of the gross rate. Under the new rate the agents got, say, 20 cents and the railroads 45 cents, leaving the company only 35 cents for delivery. No attempt was made to prove that either the agents or the carriers were entitled to such amounts for the service performed, but merely that under contracts existing they received that proportion of any rate imposed.

Commissioner Lane justly holds that by such contracts and such reasoning any rate on any commodity might be made to appear unprofitable. The commission therefore rules that a rate of 60 cents per 100 pounds is reasonable. Allowing agents and carriers the old rate for service the express company will realize from the rate allowed precisely the same amount it would realize from the \$1 rate after doubling the compensation of agents and carriers. The case is significant.—*Pittsburg (Pa.) Dispatch, Monday, May 6, 1907.*

PROF. STORER RESIGNS.

Professor Francis Humphreys Storer, professor of agricultural chemistry, at Harvard, and head of the Bussey Institution since 1871, has resigned, his resignation to take effect Sept. 1. In the thirty-seven years of his professorship Professor Storer has not only done the stated teaching of his position in the lecture-room and laboratory; he has also published a comprehensive and durable treatise on agricultural chemistry, and carried on the general administration of the Bussey Institution, including the care of the library and the editing of the Bulletin. As a teacher he has been helpful and interesting, because of the wideness of his knowledge and his wealth of illustrative material. As an administrator he was diligent and careful, and an especial friend of students whose financial means were small, and whose early opportunities had been limited. He devoted himself without reserve to the Bussey Institution in spite of the fact that the Boston fire of 1872 greatly and permanently reduced its sources of income. At the last meeting of the corporation Professor Storer was appointed professor of agricultural chemistry, emeritus, from Sept. 1.

WHOLESOME CHESTNUTS.

The time is near at hand when florists will find a way of displaying of a considerable portion of stock of various kinds in the filling of window boxes and tubs. Although a great many kinds of plants are suitable for this work, there are again some things that are almost indispensably associated with it. For instance, the variegated vinca which is without an equal either for tubs or window boxes for hanging downward from the edges. Scarlet geraniums in two rows with blue lobelia in front along with the vincas make up a very attractive window box at a moderate cost. Fuchsias which were for a time all but forgotten are being utilized now for this kind of work. Boston ferns are very much at home in window boxes providing they receive proper attention and are placed in a sheltered and somewhat shady situation. Rubber plants answer the purpose equally well under like conditions. *Dracaena indivisa* is a whole decoration in itself when placed in the centre of a moderate sized tub, and more stunning still when a number are planted in a long box along with some other decorative foliage plants, or small flowering plant either. Begonias will do very well.

Hydrangeas are very good for tubs and for larger ones canna's fit in very well. Coleuses are soft and consequently not so enduring as many other things but if bright foliage is desirable they may be used, or *Achyranthes*, which is a little hardier, may be used instead. Crotons, when hardened properly in anticipation of the duty to be performed make up into charming window box decorations.

There may be more than mere talk in the matter of the falling off in popularity of the American Beauty rose, but granting that there is there need be but little fear but that it will come again to its own.

There seems to be no end of new introductions of *Nephrolepis* and perhaps each new comer has points superior to its predecessor, but notwithstanding this the good old *Bostoniensis* is in favor still because of its undoubted qualities as a graceful, substantial, decorative fern, superior in the former quality at least to any that have as yet sprung from it.

Kentias are much sought after this season and the variety *Belmoreana* more than any other. This variety makes a splendid specimen undoubtedly, but for a large hall or reception room a specimen plant of *K. Forsteriana* with its much longer and graceful leaves seems to me to be preferable. *Kentias* are somewhat high in price. I refer of course to the larger sizes.

Memorial Day should count for more than it has so far, especially to the retail florist and grower. Try to make a specialty of something or for that matter boom up a number of things for that day. It is all very patriotic and so on to give a lot of good stuff away for nothing on that day, but it has occurred to some of us that those things would be just as much appreciated if something had been paid for them; at any rate it would greatly hasten the time when Memorial Day would be to the craft something like what other occasions are now and have long been.

NEWS OF THE CLUBS AND SOCIETIES

SOUTHERN CALIFORNIA HORTICULTURAL ASSOCIATION.

The second spring flower show was held on May 1st to May 8th at Morley Rink, Los Angeles. This was the most elaborate show the Horticultural Association of Southern California has ever attempted. It is reported to have been a great success in every way. It was not a competition, but an exhibition of plants and flowers, tropical and sub-tropical, mostly grown in the open.

Howard & Smith had a magnificent collection of tree ferns of various kinds, also shrubbery, and new roses introduced in California for the first time. Edward Rust, nursery man of South Pasadena, also had a fine collection of ferns and shrubbery, and some fine specimens of English box rarely seen in this part of the country. Detrich & Huston also had a fine exhibit of decorative plants. Rising & Dunscombe had a magnificent show of field-grown carnations, also roses. Signal Hill Floral Company had a very fine display of field-grown carnations, coreopsis and other cut blooms known in California as the sea dahlia which is a variety of *Leptosyne maritima*. Thomas Lambert of Sierra Madre had a splendid show of new English sweet peas, some of which were never before displayed in California. Also Miss Reise had an excellent display of sweet peas and new roses. Cacti by Theodore Payne were very good indeed. He also had a table of California wild flowers.

H. E. GEORGE.

NEW BEDFORD HORTICULTURAL SOCIETY.

At the regular monthly meeting of the New Bedford Horticultural Society held on Monday evening, the members listened to an address upon the culture of the dahlia, by N. Allen Lindsey of Marblehead, Mass. Mr. Lindsey congratulated the society upon its strength and vigor, and in the course of his remarks, pleased his New Bedford hearers when he said that nothing in the horticultural world enjoyed so wide a popularity as the dahlia. The speaker regretted that several kinds which were popular as far back as 1840 have entirely disappeared. He describes the dahlia as being very capricious; as sometimes a ne'er do well in one garden, if thrown over the fence, will do remarkably well in another garden.

The monthly exhibition of plants and flowers was well patronized. James Garthley of Fairhaven showed an excellent vase of Lady Bountiful carnations. Refreshments were served and a very pleasant evening passed.

The schedules for the annual show to be held September 12, 13 and 14 are ready for distribution.

PEONY SOCIETY.

The next meeting and exhibition of the American Peony Society will be held at the State College of Agriculture, Cornell University, Ithaca, N. Y., on Tuesday and Wednesday, June 18 and 19, 1907.

A. H. FEWKES, Secretary.

PITTSBURGH AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The subjects at the club meeting, May 7, "The Credit System" and "Bedding Plants," brought out a good attendance. There was quite a liberal display of plants from home growers. S. J. Wolfe showed alstromeria and a very pretty amaryllis. The alstromeria was thought a good plant to force for Easter. H. L. Blind Bros. showed geraniums, all double; no demand for singles in their trade. La Favorite for white, Nutt and Beaute Poitevine, are their leaders, Nutt selling twenty to one of the others. They also displayed double petunias, lantanas, salvia, Baby Rambler roses, Boston fern, cannas, climbers and bedding plants in variety. C. S. Crall showed geraniums, including Dryden and Telegraph. Wm. Cromack showed dwarf ageratum in bloom not four inches high.

Jno. Bader spoke at length on "The Credit System." T. P. Langhans read a carefully prepared paper on "Credits and Collections" which he thought the most neglected part of the florist's business, due in part to the jealousy and keen competition which exists among florists. In many other lines of business the merchants are organized in a way which enables them by mutual exchange of information to keep posted on the dead beats and poor pay customers and to keep their losses at a minimum, but in the florist's trade in Pittsburgh no such understanding exists, and there is nothing to hinder a dead beat customer from victimizing one florist after another, until he has made the rounds of the trade. Mr. Langhans advocated close collections, and—for retail stores—collectors. He also spoke strongly against the general idea of the public that the florist has great profits. He thought that taking into consideration the long hours of the florist, the absence of the half-holiday on Saturday, and the frequent Sunday work, that there was no business with so little pecuniary reward.

The subject of the meeting for June 4 will be "Plants and Flowers Most in Demand for Decoration Day," with samples. The president appointed speakers for the meeting.

H. P. JOSLIN, Secretary.

MORRIS COUNTY (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

At the regular May meeting of this Society a paper was read by Arthur Herrington on the "Making and Care of Lawns." It was an instructive paper and much appreciated by the members. Two vases of gladiolus Blushing Bride and two of gladiolus Peach Blossom were shown from Florham Farms; a cultural certificate was awarded. The meeting was in great part devoted to revising the schedule for the fall show, which we have decided to hold on Oct. 31st and Nov. 1st of this year.

E. R.

LENOX HORTICULTURAL SOCIETY.

A regular meeting of the above society was held Saturday, May 4, President Heremans in the chair. Thomas Proctor was awarded a first-class certificate of merit for two very fine plants of *Rehmannia angulata*, grown and shown for the first time at Lenox. This very beautiful half-hardy herbaceous perennial comes from Central China. It is very free flowering; the flowers borne up the stem are rosy purple, about three inches in diameter, and have a rich yellow throat dotted with purple. The individual flowers are large, striking and showy. Seeds sown early in the year will flower the same year—a welcome addition for conservatory use. Mr. Proctor was also awarded two certificates of cultural commendation for two well grown plants of *Scizanthus Wisetonensis* in ten-inch pots, and *Phlox divaricata* in ten-inch pans. Next meeting night is Saturday, May 18, when important business will be brought up before the society.

G. H. INSTONE, Secretary.

NEW YORK FLORISTS' CLUB.

The May meeting of this club was held on Monday evening, May 13, at the Hotel Earlington. Fifty-five members were present to listen to Mr. Skidelsky's paper on the National Flower Show. The paper was much enjoyed and brought up a lively discussion. Some twenty or more members participated and the universal sentiment seemed to favor giving a big boost for the Chicago show. The trustees were instructed by vote to secure proper meeting rooms for the club. Patrick O'Mara, Alex. Wallace and John Young were appointed committee on closer relations with the Horticultural Society of New York, with a view to co-operative exhibitions in New York City.

After the meeting John Birnie escorted Secretary Young, John Donaldson and several other members to the plant market as his guests and not only gave them a royal good time but showed them some things about the plant market they never before realized.

The Club outing seems to be a pronounced success in advance, as over \$500 has been promised in prizes and program advertising.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next regular monthly meeting of the club will be held at Horticultural Hall on Tuesday evening, May 21st, at 8 o'clock. In lieu of a lecture there will be a ten-minute talk on Bulbous bedding plants. Herbaceous plants as bedders, and Tender bedding plants, followed by a discussion. Exhibits of hardy bulbous and other seasonable flowers are invited. There will be a whole host of other attractive features which, it is hoped, a large number of members will come and enjoy.

W. N. CRAIG, Secretary.

AMERICAN ASSOCIATION OF NURSERMEN.

Convention program, Hotel Cadillac, Detroit, Michigan, June 12, 13, 14, 1907:

JUNE 12TH, 9.30 O'CLOCK A. M.

Calling to Order—President Orlando Harrison, Maryland.

Welcome to Mich'gan—Charles A. Illgenfritz, Michigan.

Response—Charles T. Smith, Georgia.

Welcome to Detroit—Mayor Wm. H. Thompson.

Response—Stanley H. Watson, Texas.

President's Annual Address—Orlando Harrison, Maryland.

Report of Standing Committees—Transportation, Tariff, Legislation, Ways and Means, Uniform Inspection, National Council of Horticulture, Arrangements, Publicity, Editing Report.

Report of Secretary; report of Treasurer. Report of Special Representative—E. Albertson, Indiana.

Selection of State Vice Presidents.

JUNE 12th, 1.30 O'CLOCK P. M.

Preparing Nursery Land—R. G. Chase, Geneva, N. Y.; C. C. Mayhew, Sherman, Texas; John Siebenthaler, Dayton, Ohio.

Cultivating Nursery Stock—G. N. Hobbs, Bridgeport, Indiana; J. F. Donaldson, Warsaw, Kentucky; Geo. Marshall, Arlington, Nebraska.

Growing and Grading Apple Seedlings and Apple Trees—F. W. Watson, Topeka, Kansas; E. S. Welch, Shenandoah, Iowa; R. J. Bagby, New Haven, Missouri.

Growing Peach—J. C. Hale, Winchester, Tennessee; W. T. Hood, Richmond, Virginia; F. D. Green, Perry, Ohio.

Meeting of Nurserymen's Mutual Protective Association at 4 o'clock p. m. (Place to be announced.)

JUNE 12TH, 8.00 O'CLOCK P. M.

Nurseries of the United States. (Illustrated.) Prof. John Craig, Cornell University, Ithaca, N. Y.

JUNE 13TH, 9.30 O'CLOCK A. M.

Growing, Grading and Storing Grape Vines—E. H. Pratt, Fredonia, N. Y.; Eugene Willets, North Collins.

Growing Ornamentals—W. H. Wyman, North Arlington, Md.; R. C. Berckmans, Augusta, Georgia; Geo. C. Perkins, Newark, N. Y.

Growing Cherry—W. F. Heikes, Huntsville, Ala.; J. W. Gaines, Zenia, Ohio; Harry D. Simpson, Vincennes, Ind.

Growing Small Fruits—W. N. Scarff, New Carlisle, Ohio; N. E. Chandler, Argentine, Kas.; C. A. D. Baldwin, Bridgeport, Mich.

Spraying Nursery Stock—J. H. Hale, South Glastonbury, Conn.; H. McDonald, Salem, Oregon.

JUNE 13TH, 1.30 O'CLOCK P. M.

Storage of Nursery Stock—D. S. Lake, Shenandoah, Iowa; J. M. Underwood, Lake City, Minn.; H. G. Bryant, Davenport, Iowa.

How Can Nurserymen Prevent Apple Crown-Gall and Hairy-Root—Prof. C. G. Hedgcock, U. S. Department Agriculture, St. Louis, Mo.

Marketing Nursery Stock—Charles E. Greening, Monroe, Mich.; C. J. Maloy, Rochester, N. Y.; Geo. H. Whiting, Yankton, So. Dakota.

Shall this Association Attempt to Establish Standard Sizes or Grades for Fruit Trees—J. M. Pitkin, Newark, N. Y.; E. P. Bernardin, Parsons, Kansas; Abner Hoopes, Westchester, Pa.

Meeting of American Nurserymen's Protective Association at 4 o'clock p. m. (Place to be announced.)

JUNE 14TH, 9 O'CLOCK P. M.

Managing Salesmen—J. W. Hill, Des Moines, Iowa; C. R. Burr, Manchester, Conn.

Need of Co-operation Among Nurserymen—J. H. Dayton, Painesville, Ohio; H. S. Bird, Benton Harbor, Mich.

Shall We Change the Date of Annual Meeting?—Wm. Pitkin, Rochester, N. Y.; Peter Youngers, Geneva, Nebraska.

Report of Committee on Exhibits; Report of Committee on Resolutions; Election of Officers; Selection of next place of meeting.

ST. LOUIS FLORISTS' CLUB.

A very large attendance at the club meeting on last Thursday afternoon enjoyed a most interesting meeting. Good delegations from Kirkwood, Ed-

wardsville and Collinsville were in attendance. According to Secretary Beneke the membership has again reached 100.

The trustees made a report that they had made all arrangements for the celebration of the club's twentieth anniversary, which will take place in the new and elegant Hibernian Hall. This will be for florists only. Members and their florist friends will be invited. It will be a stag affair, with music, singing, dancing and refreshments—as Chairman Smith says, a round of pleasure during the entire evening. The trustees were also instructed to prepare for the club's annual picnic during the month of July, and report arrangements at the meeting in June.

A great discussion was started on the question as to the different ways of fumigation. Prof. Irish, G. H. Pring and G. Fulgraf of the Missouri Botanical Garden were present and took part in the discussion. J. F. Amann and Frank Fillmore added greatly to the discussion by their long experience. This question of fumigation will be continued at the next meeting. President H. C. Irish will, it is said, map out a programme for the June meeting which will take place June 13, at 2 o'clock.

CONNECTICUT HORTICULTURAL SOCIETY.

The regular meeting of this body was held in County Building, on Friday, May 10. President Sternberg oc-



cupied the chair and there was a large attendance of members. It was pansy night, and considering the backwardness of the season the quality of the exhibits was surprisingly good.

The bright particular event of the evening was a lecture on "The History of the Modern Pansy" by John Gerard, New Britain, Conn. Mr. Gerard, who is one of our active members, is a noted pansy specialist and handled his subject in masterly style. He traced the descent of the famous strains of today back to the original, small violas and proved conclusively that the credit of "creating" the modern pansy belonged to a Miss Mary Bennett (daughter of an Earl of Tankerville) who began the selection and hybridizing of violas at Walton-on-Thames, England, in 1810. The address was listened to with much interest and the lecturer was awarded a hearty vote of thanks.

The committee appointed to judge the exhibits announced their awards as follows: John Gerard, diploma; T. F. Huss, J. A. Weber and E. F. McDermott, certificate of merit; Amos Reynolds and J. Ketzmeier, honorable mention. The committee on exhibitions reported progress and inti-

mated that the fall show would be held early in November. The society is in a flourishing condition and at this meeting seven new members were added to the roll.

ALEX. CUMMING.

AMERICAN CARNATION SOCIETY.

Carnation Registered.

By Mrs. Jennie P. Snow. Andrew Carnegie. A red sport of Harlowarden, a perfect glowing scarlet, good keeper and fine shipper, much freer than Harlowarden and a continuous bloomer with a perfect non-bursting calyx. This name is used provisionally to be approved or rejected at the next annual meeting of this society.

A. M. HERR, Secretary.

Lancaster, Pa.

CLUB AND SOCIETY NOTES.

The San Diego Floral Association, San Diego, Cal., will hold their flower show on May 29.

The Naturalist Society of Central Falls, R. I., has appointed a committee to arrange for a flower show in June.

The rhododendron show of the Massachusetts Horticultural Society has been postponed from June 1 to June 8, on account of the backward season.

The Amateur Horticultural Society of Springfield, Mass., at its meeting on May 3 decided to hold a flower show in June, the date to be decided on later.

The Rose Society of Portland, Ore., are making plans for an extensive rose show. The Forestry building at the Lewis and Clark fair grounds has been secured for the display.

The California State Floral Society of San Francisco, which is the oldest of its kind on the Pacific Coast, will join with the Pacific Coast Horticultural Society in holding a flower show in October.

The American Association of Park Superintendents is considering the advisability of changing the date of its Toronto meeting from August 6, 7 and 8, to August 15, 16 and 17, for the convenience of those of its members who would like to include in this vacation trip the convention of the S. A. F. at Philadelphia, which opens on August 20.

The annual meeting of the American Association of Nurserymen will be held at Detroit, Mich., on June 12, 13, 14, 1907, in the Hotel Cadillac, and extraordinary efforts are being put forth to make this the largest convention in the history of the Association. The officers are: President, Orlando Harrison, Berlin, Md.; secretary, George C. Seager, Rochester, N. Y.; chairman of exhibits, Thomas B. Meehan, Dreshertown, Pa.

A CORRECTION.

The Siberian Iris (I. Sibirica) which was the subject of our frontispiece in last week's issue, was inadvertently designated in the title as Spanish Iris, a mistake which was no doubt immediately apparent to most of our readers.

THE NATIONAL FLOWER SHOW.

A Paper Read Before the New York Florists' Club by S. S. Skidelsky.

The proposed National or International Flower Show, to be held at Chicago during the month of November, 1908, will unquestionably prove an epoch making event in the history of horticulture.

And right here the thought occurs to me, that, unless we put forth our best efforts and our utmost energies, bearing in mind that upon the success or failure of this first attempt hinges the future of an industry, involving millions of dollars, unless we stand shoulder to shoulder and work for the common good of all—each according to his means and might—unless we do this, I say, we shall have no right to enter the ranks of progressive business men.

It is nearly two years ago, at Washington, when E. G. Hill—"the sage" of Richmond, Ind., first broached the subject of a National Flower Show. His observations on the European continent, where such shows are held annually under the auspices of Royal and National Horticultural Societies, as in England and France for example, led him to believe that an enterprise of this sort, undertaken by the Society of American Florists and given under the auspices of the American Sovereigns—the people—could not but prove a success. And how, I will ask in passing, could it prove otherwise?

As a matter of course, opinions pro and con were freely expressed on all sides. There were those who predicted inevitable failure, basing their predictions upon no other reasons than such as presented themselves to their distorted, pessimistic imaginations. "Why, indeed, should a National Flower Show be thought of at all? Why? Haven't we plenty of local shows of all kinds—they reasoned—that never pay? And who would benefit by this National Show anyway? Men, who have something to sell, of course. It is all nonsense, they concluded—and there is nothing to it."

There were others, however, who took a much broader view of the situation, whose mental vision was in no wise circumscribed by petty jealousies or selfish motives of one sort or another, who could see the great possibilities for the advancement of horticulture, who could realize the inestimable advantages that would accrue to our interests, who, in brief, took a retrospective view of horticulture, comparing the present with the past and drawing their conclusions as to the future. Kindled by an enthusiasm well worthy of the cause, there soon formed a small circle of men, who were, so to speak, carried away by the idea—and a subscription list for the necessary premium guarantee fund was started. Something like \$4000 was subscribed there and then. Thus the idea of a National Flower Show—the first show of the kind ever attempted upon the American continent—bids fair to become a successful reality.

The National Flower Show, it may be depended upon, will not only come to pass, but like any other great work, ever attempted by public spirited men for the benefit of a people at large—it is destined to fulfil a mission; it aims to inspire them with a desire for all

to educate our people, to enthuse them, that is beautiful in nature, to show them by means of an object lesson how things can be done, how the humble garden and the humble cottage of the workingman can be made as attractive in their way as the magnificent grounds surrounding the stately mansion of the millionaire. What the progressive and enterprising florist has attempted and has carried out in a small way in his own town—what public spirited individuals have accomplished by way of spreading the idea of horticulture in their own communities,—the National Flower Show aims to do on a large scale. We are all familiar, more or less, with the history of the National Cash Register Company's institution at Dayton, Ohio. We know that Mr. Patterson, the head of that model institution—has worked long and hard to transform a wilderness into a garden spot. We have been told how rowdism that took pleasure in wanton destruction of flower beds and lawns was converted in the end to the gospel of ornamental horticulture, how unsightly cottages in the immediate vicinity of that institution were transformed into beautiful little palaces, how tin cans and rubbish heaps of all sorts disappeared, flower beds and shrubbery taking their place. To the moralist—such a transformation bears another lesson, for who will question the benign and wholesome influence of beautiful surroundings upon the mind and character of the child, the youth—our future lawmaker or law-breaker?

He was a wise man indeed, who said: "Tell me your company—and I will tell you who you are." To paraphrase this saying—we may put it thus:

"Show me your surroundings—and I will define your character and social standing in your community."

After all we are but creatures of circumstances,—to the one who rises from amidst squalid and filthy surroundings and forces his way through into a world of light—there are hundreds who succumb to the darkness and wretchedness of the nether regions.

If I remember rightly, it was the late Benjamin Harrison, who, in a speech at one of the Indianapolis chrysanthemum shows, remarked, that "the man who loves flowers, was never known to abuse his wife"—or something to that effect.

But, to return to the subject, stripped of its moral element. Viewed in the light of pure utilitarianism of commercialism, a National Flower Show, such as it is intended to hold at Chicago, must as a matter of course bear good fruit. We need but recall the early struggle of the florists of a generation or two ago, men still living in our midst,—their trials and tribulations long before a Society of American Florists and Ornamental Horticulturists sprung up, long before a Carnation Society made its appearance or a local flower show of any sort was ever thought of, to arrive at the conclusion that the progress we have achieved was due in a large measure, not so much to individual endeavor or to individual enterprise, as to a combination of efforts, having for its aim the benefit of each, individually, and of all as a body.

Whatever arguments one may advance in favor of that hackneyed in-

junction, "Attend to your own business, etc.," whatever success one may point at as the result of strict attention to one's own affairs, it is a fact beyond dispute that the Society of American Florists and Ornamental Horticulturists is responsible for most of our achievements in the past and, if I may venture a prophesy, for much more than we are sure to accomplish in the future. I will go further and say, that the Society of American Florists, as a body, composed of earnest, energetic, progressive and intelligent men, is directly responsible for the success of the very man, who "can't see what good it will do him to join our Society." "What Good?" Let the history of our Society speak for itself. Twenty-five years of energetic work along progressive lines has brought about the results which we see in the greenhouses, at the store, on the highways and byways throughout the land. Our improved products, the evolution of the button-sized carnation, the measly rose and chrysanthemum with perfect specimens of their kind, our improved facilities of marketing our products, our business methods, etc.,—are all due to organized effort, to the Society of American Florists.

"What good?" I need but cite the recent victory scored by our Society before the Interstate Commerce Commission—a victory that will compel the United States Express Company to submit to reasonable rates and incidentally, will save dollars to the man who can't see any good in our Society.

Verily "in union there is strength." We all know by experience what it means to give a local flower show; we know how these flower shows, whether financial successes or financial failures, have induced the growers to vie with each other in their efforts to show their best products, how these in turn, have induced the dealers to handle the best at prices remunerative to both the growers and themselves, how furthermore, the flower buying public has learned to discriminate, to draw the line between a high-grade flower and the semblance of one, not marketable at any price. The demand at all times, as we all know, is for high grade stock. To the man or woman, to whom all flowers looked alike but a few years ago, nothing but the best appeals today. Whence this change, this tremendous advance along progressive lines within but a comparatively short space of time? The answer is easily given. The local flower show, often held under adverse and discouraging conditions has brought about this result; it has educated the public, it has brought the grower and the dealer together; it has induced the private gardener and the amateur to advance to the front and to improve upon past achievements. Thanks to these shows we have ceased to dwell within our own shells, to grope in the dark, as it were, each for himself. We have learned by actual experience the lesson of combination, or "community of interests," if I may borrow the expression that has originated somewhere on Wall Street.

What has been accomplished, I repeat, by the progressive florist in a small way, in his own town, what the public spirited individuals have brought about in their own communities, what the florists' clubs have

NEPHROLEPIS

Piersoni Elegantissima

The Tarrytown Fern

A good stock in all sizes on hand at all times. A splendid seller and money-maker. Large specimen plants, ready for immediate sale: 6-inch at 75c and \$1.00 each; 8-inch at \$1.50 and \$2.00 each; 10-inch at \$3.00 each; 12-inch at \$5.00 each; 14-inch at \$7.50 each; 16-inch at \$10.00 each. Also fine young stock for growing on, 2¼-inch at \$8.00 per hundred.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

achieved by means of giving occasional flower shows, the promoters of the National Flower Show aim to accomplish for every florist, nurseryman, gardener and amateur—of every city, town and village—in every State in the Union.

It is the aim and object of the National Flower Show, to be held at Chicago, not only to bring forth the best there is in cultivation, both here and abroad, for the inspection of "society folks"—but also to inaugurate a campaign of education for the benefit of our people as a whole—to demonstrate, if such a thing is possible, through the public press and by means of circular letters, pamphlets, etc., to the great mass of horny-handed Americans the beauties and wholesome influences of shrubs, flower beds, lawns and trees—in a word, to promote horticulture in all its branches among all the people.

How often do we hear such remarks, that, "horticulture in this country is still in its infancy," that the possibilities for its development are practically unlimited, that much as we have advanced during the past decade or two, the future development of horticulture bids fair to surpass our most sanguine expectations. If this be true, as it unquestionably is, is it not high time that we make some effort to hasten the approach of its development? Is it not within our own power to devise some means and ways in order to bring about the results desired more speedily and within our own time? Why wait until Mrs. Jones' infant daughter, playing upon a rubbish heap in that back yard, may some day, when she grows into womanhood and has a home of her own, prefer a canna bed to a bed of tin cans? Why not show to Mrs. Jones herself the striking contrast between the two—the beauty of the one and the unsightly, ugly features of the other?

Is it not within the range of possibility that Mrs. Jones may turn the scales in favor of the flower bed? Aside from the fact that the National Flower Show is sure to bring dollars and cents into the pockets of the very

men who have neither the time nor the patience for "such innovations"—aside from the fact that a show of this kind is sure to benefit our people at large, for no industry, be it the cultivation of sugar beets—or shrubbery—was ever known to prove otherwise but beneficial to a community—aside from these obvious facts, we must not overlook the educational, aesthetic and moral features of such a flower show—a benefit that can neither be overestimated, nor can it be estimated by the usual standard of dollars and cents.

After all, the future of horticulture, like the future strength and stability of our beloved republic, depends, not so much upon the favored few, able to gratify their whims and desires, as upon the great mass of the American people. The future of horticulture hinges not upon what is being or will be done at Newport, along the Hudson or at Lenox, but upon the general improvement in the conditions, environments and educational standards of our people throughout the great American continent. Just as soon as the miner in the Pennsylvania coal regions, or the laborer in the overcrowded tenements in our cities, or the farmer in the Dakotas will deem it a necessity to relieve the squalor and the painful monotony of their daily surroundings by the introduction of a potted plant, a flower or a shrub into their homes—just as soon as this comes to pass—as come it will—the future of horticulture will be laid on a solid and most enduring foundation.

And right here I can scarcely refrain from saying a few words (although I am repeating myself) on the need of organization, on the need of concerted action in behalf of a common cause. That Chicago will have the honor as well as the Herculean task to hold this first National Flower Show—done not necessarily mean, as some perhaps are prone to think, that this is to be a Chicago affair. Not by any means. While Chicago undertakes the work—and a tremendous work it is—it will depend on the aid and co-operation of the Eastern cities

and the Eastern growers. This is certain. It is likewise certain that in order to make a success of this, our first attempt, there must be no division of forces, no division of interests, no geographical lines drawn. Boston, as well as Milwaukee, must come to the front and help share the burden of Chicago. "Let us ever remember," said the late President McKinley, "that our interest is in concord, not in conflict."

Let us remember this, if we wish to see horticulture upon a plane equal to that of any other great industry in our country.

MOVEMENTS OF GARDENERS.

J. R. Duby has assumed the duties of gardener to John Shepard, Phillips Beach, Swampscott, Mass.

Andrew Meyer has been reappointed city forester with Wm. Jordan as assistant in St. Louis, Mo.

David Gordon, formerly gardener on the Plant estate at Eastern Point, Ct., has taken charge of the greenhouses and grounds of A. M. Young at Bradford, Ct.

In and Around Morristown, N. J.

Wm. Kissling has accepted the position of head gardener to Edward A. Day, Madison Ave.

Frank Cullen has moved here from Summit, N. J., to take charge of the greenhouses and gardens of Geo. E. Chisolm.

"Jack" Downing will continue his foremanship in the greenhouses of Dr. D. H. McAlpin, Littleton, N. J., for another year.

John C. Elliott, formerly foreman in the "Spring Brook Farm" greenhouses, has accepted the position of superintendent on the estate of John I. Waterburg, Glen Road.

Samuel Stewart, formerly head gardener to G. E. Chisolm, has accepted the position of superintendent on "Wheat Sheaf," the country residence of Gustav E. Kissel.

Geo. G. Frelinghuysen is having his place on Whippany road improved by extensive and artistic plantings of shrubbery. J. H. Troy is the architect and Richard Vince has charge of the work.

PUBLICATIONS RECEIVED.

The U. S. Dept. of Agriculture, Bureau of Biological Survey, has issued a circular on the value of swallows as insect destroyers. The importance of protecting swallows wherever found is emphasized, and the great usefulness of these birds in the war being waged against the cotton boll weevil in the south is forcibly demonstrated.

The Minnesota Horticulturist for May contains much practical information, especially for the fruit grower. A portrait and obituary notes of the late R. H. L. Jewett of Corning, Cal., is included. Secretary Latham gives the membership of the Minnesota Horticultural Society by which this monthly is supported as 2325, a pretty good evidence of Minnesota's interest in horticulture.

Among the recent valuable publications by the U. S. Department of Agriculture are Farmers' Bulletins, Nos. 282, 283 and 289, on Celery by W. R. Beattie, Spraying for Apple Diseases and the Codling Moth in the Ozarks by W. M. Scott and A. L. Quaintance, and Beans by L. C. Corbett, respectively. These are all very practical in their contents, fully illustrated and of great value to the truck farmer and fruit grower.

We have received from Secretary Wesley Greene volume 41 of the transactions of the Iowa Horticultural Society, being the annual report for 1906. It is a bound volume of over 500 pages. The fruit grower will find in it much to interest and instruct, especially on the subjects of apples, plums, and strawberries. The possibilities of fruit growing in Iowa are well brought out in a number of valuable papers and the ornamental trees and plants are not forgotten.

The set of Forest Service circulars and leaflets sent out by the Department of Agriculture April 29, 1907, contain much instructive matter for public enlightenment as well as for the use of those directly interested in tree planting. There are fourteen of them. Among the trees treated upon are the Russian mulberry, white ash, slippery elm, white willow, black walnut, tamarack, Osage orange, coffee tree, green ash, yellow poplar, black cherry and sugar maple.

Proceedings of the Sixteenth Annual Meeting of the American Carnation Society, held in Toronto, Ont., January 23 and 24, 1907. This is an exceptionally fine report, the most complete and accurate ever issued by the American Carnation Society we should say. It contains much that the ambitious carnation grower needs to know and nobody should think of carnation growing as a profession or a pastime in these days without having a copy of this report. Membership in the society is the only cost and it is cheap at that. A list of members is appended but the honorary members are, for some reason, overlooked.

LIST OF PATENTS.

Issued April 30, 1907.

- 851,675. Harrow. Jacob C. Ferguson, Wilber, Nebr.
- 851,710. Hopple or Regulator for Plows. William N. Thornton, Cedar Hill, Texas.
- 851,727. Cultivator. William M. Ashmore, near Rara Avis, Miss.
- 851,729. Plow. Spencer B. Carter, Elizabeth City, N. C.
- 851,741. Seed Planter. James S. Gardner, Java, Ala., assignor of one-half to Jesse W. Dismukes, Java, Ala.
- 851,750. Replanting Attachment for Cultivators. Marion F. Hodges, Rushville, Ill.
- 851,840. Lawn Trimmer. Sumner O. Sawyer, Traverse City, Mich.
- 851,872. Plow. Willoughby D. Dozier, Weeksville, N. C.
- 851,901. Mower. James H. Sherrard, Sparta, Ill.
- 851,902. Plow Jointer. Roy C. Smith, East Germantown, Ind.
- 851,928. Manure Spreader. Frank M. Goodhue, Batavia, Ill.
- 851,959. Agricultural Implement. Peter Peterson, Chicago, Ill.
- 852,086. Plow Attachment. Wilson B. Tunnell, Van, Texas.
- 852,109. Drill. Dean B. Edwards, Wauchope, Saskatchewan, Canada.
- 852,251. Plow. Charlie C. Addington, Wheelersburg, Ohio.
- 852,316. Cultivator Shovel or Tooth. Charles Burmeister and Earnest Boldt, Calumet, Ia.

Issued May 7, 1907.

- 852,669. Cultivator, George S. Mayn, Tipton, Ind.
- 852,746. Draft Appliance for Farm Implements. William T. Stevig, Pulaski, Iowa.
- 852,777. Combined Lister Plow and Planter. Thomas J. Dudley, Abilene, Texas, assignor to Ed. S. Hughes, Abilene, Texas, and H. C. Stahl, Bellevue, Ohio.
- 852,843. Plow. Marvin D. Main, Cortland, N. Y., assignor of one-half to Lynn R. Lewis, Cortland, N. Y.
- 852,996. Plow. Conrad Bohrssen, Gross Munzel, near Wunstorf, Germany.
- 853,004. Plow. Wilhelm G. Danielsen, Logan, Utah.
- 853,039. Cultivator. John J. Stalder, Meade, Kansas.
- 853,046. Steam Plow. Jesse W. Vaniman, Wichita, Kansas.
- 853,047. Plow. Richard J. Vickery and John J. Dinsmore, Clark, S. D.
- 853,072. Combination Weed Gatherer and Cutter. John N. Eames, Medford, Mass.
- 853,160. Disk Harrow. Cyrus N. Cass, Spangle, Wash.
- 853,179. Hoe. James S. Lestel, Atlanta, Georgia.

PAYS US WELL.

You will please not repeat our large advertisement of last week, as the goods we offered have all been sold. Over \$500 worth of direct sales from one offer pays us well, as in fact all our advertising in HORTICULTURE does.

A. H. HEWS & CO., Inc.
Cambridge, Mass., April 25, 1907.

PRIMULA SEED

The Finest in America

Giant	Orange King (novelty) Bright	
	Salmon	
	Pure White	Trade Pkt.
	Blush White	\$1.00
	Rose	
	Scarlet	1/2 Trade Pkt.
	Royal Blue	60c
	Mixed	

Novelties

Giant	Double Pink	Trade pkt.
	Double Crimson	\$1.00

Giant	Primula Obconica Kesmesina	Tr. pkt. 50c
	deep rose	
	Alba, pure white	50c
	Mixed	50c

Primula floribunda grandiflora		
	(Buttercup)	50c
"	Forbesii (Baby Primrose)	25c
"	Kewensis (Giant yellow Buttercup)	\$1.00

This charming addition to our greenhouse Primroses originated at the Royal Gardens, Kew, as an accidental cross between the small, but bright-flowered Himalayan species, *P. FLORIBUNDA*, and the sweet-scented *P. VERTICILLATA*, a native of Arabia. The plant is a strong grower, with bright green leaves, and numerous erect flower-scapes, 10 to 18 inches in height producing flowers in whorls at intervals along their whole length. The flowers are fragrant, bright yellow in color, with a slender tube and spreading limb, nearly an inch in diameter. As a winter-flowering decorative plant it is an acquisition; its floriferousness when in a very small state is remarkable.

ARTHUR T. BODDINGTON

342 W. 14th St., N. Y.

FIGHTING THE MOTHS.

Without opposition, the Massachusetts legislative committee on agriculture has recommended an appropriation of \$225,000 to stop the moth pest as far as possible during the coming year, although Vice-President Elson of the Society for the Suppression of Gypsy Moths said that all idea of exterminating the moths in Massachusetts had been given up.

At the hearing held before the board the moth fighters from the infected sections were present in force and outlined the work necessary to prevent the ravages of their arch enemy and then asked for the appropriation.

Extermination is the watchword in the districts outside the reservations. In the latter places they will work on suppression. They said that the parasites were still in the experimental stage and they would aid in suppressing the pests.

Field Agent Enwright of Medford said that to exterminate the moths at the present time they would need the assistance of the Almighty, but that the parasites had brought a new hope to the fighters.

We would like to inform the trade that our representative, Mr. De Groot, has left today for a trip through Europe for the interests of our business, looking after the packing and filling of the orders of our American customers, visiting the Holland, Belgium, French and German growers and make arrangements to remove our headquarters now at Arnhem, Holland, to Hillegom, Holland.

JOHN SCHEEPERS & CO.

Seed Trade

Sweet peas, under favorable conditions, have produced as high as a ton and a half of seed to the acre.

It has been computed that the Santa Clara Valley, California, produces a little more than 2,000,000 pounds of seed per annum, the sale of which brings in upwards of \$1,500,000 yearly.

A writer in The Garden states that all seeds that rats, mice or birds esteem can be effectually protected by coating them with red lead. After dampening the seed the red lead is stirred among them until each kernel is coated and separate.

The twenty-fifth annual convention of the American Seed Trade Association is to be held in New York, June 25-27, at the Hotel Astor. The hotel is centrally located, only a short distance from the Grand Central Station, convenient to the subway and all surface lines, and is a most suitable place for the holding of the convention.

CATALOGUES RECEIVED.

Kelly's Market Garden, East Spokane, Wash.—List of vegetable plants, small fruits, etc.

A. Hielscher, the progressive wireworker of Detroit, is mailing a well illustrated price list to the trade.

S. J. McMichael, Findlay, O.—Wholesale Trade List of Vegetables, Greenhouse and Bedding Plants.

Phoenix Nursery Company, Bloomington, Ill.—A very full list of fruit and ornamental trees, shrubs, and climbers and hardy border plants.

INCORPORATED.

The Pennsylvania Nursery Co., Shermansville, Pa., has been incorporated with capital of \$25,000.

The J. E. Wing & Bros. Seed Co., Mechanicsburg, O., by J. E. Wing, W. C. Wing, C. B. Wing, Janette Wing and T. M. Clemans; capital stock \$30,000.

BEGONIAS



TUBEROUS ROOTED

Doz.	100
Single White	\$5.00 \$3.00
Red	.50 3.00
Rose	.50 3.00
Yellow	.50 3.00
Orange	.50 3.00
Mxd Colors	.40 2.50
Double colors, separate or mxd.	1.00 6.00

W. Elliott & Sons
201 Fulton St., N. Y.

FISKE'S SEEDS

For Immediate Sowing

Also

GLADIOLUS BULBS

In variety and mixture

Our Trade List Mailed on Application

H. E. FISKE SEED CO., Faneuil Hall Square, BOSTON

CINERARIA

The Cineraria seed offered by us is the best procurable. Immense trusses of the largest flowers are produced. Have been awarded numerous First Prizes.

	Trade Pkt.	Trade Pkt.
Grandiflora Prize Dwarf, Mxd. Medium Tall.	\$0.60	\$1.00
Mixed	60	100
James' Giant Strain, Mixed	60	100
Hybrida Choice Mixed	39	50
Double Mixed	60	100

PRIMULA

FRINGED CHINESE VARIETIES

Alba Magnifica, White	60	\$0.60 \$1.00
Chiswick Red, Brilliant Red	60	100
Holborn Blue	60	100
Kermesina Splendens, Crimson	60	100
Rosy Morn, Pink	60	100
Stellata, (Sutton's Star), Original pkt., \$1.25		
Fern Leaved, Mixed colors	60	100
Mitchell's Choicest European Mixture contains only the very finest sorts, selected from the best strains. (Per 1-16 oz \$2.00)		
William's Superb Strain, Mxd.	60	100
Double White	60	100
Mixed	60	100

Also a full line of Obconica Varieties.

CYCAS REVOLUTA

Strong healthy stems 25 lbs., \$2.25, \$8.50 per 100 lbs. Send for our Wholesale Price List.

HENRY F. MICHELL CO.

1018 Market Street
PHILADELPHIA - PA.

WE HAVE

BEGONIAS, CHOICE PEONIES,
JAPANESE LILIES and SAGO
PALM STEMS.

WRITE US AT ONCE.

JOHNSON SEED COMPANY

217 Market St. Philadelphia, Pa.

C. C. MORSE & CO.

171-173 Clay St., SAN FRANCISCO, CAL.

The Largest Seed Growers
on the Pacific Coast

NEW STOCKS FLOWER SEEDS for FLORISTS

Wholesale Catalogue Ready. Send for it today. But first read our advertisement on page 105 in the Horticulture for January 26, 1907. It is worth reading.

James Vick's Sons

Seedsman Rochester, N. Y.

High Grade Seeds for
Market Gardener,
Florist and Farmer

Catalogues Free

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a large supply of exceptionally fine quality.

For the Lawn,

The Greenhouse,

For the Herbaceous Garden,

For the Flower Garden,

For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,
6 and 7 So. Market St., BOSTON.

ESTABLISHED 1802

*Thorburn's
Seeds*

Cold Storage LILY OF THE VALLEY
PIPS, best possible grade, in cases of 1000
and 3000 pips each, at \$12.00 per 1000.

Advance Orders now being booked for
BERMUDA EASTER LILIES and ROMAN
HYACINTHS.

SEND FOR PRICES

J. M. THORBURN & CO.

33 Barclay St., through to 38 Park Place

NEW YORK

Everything of the Highest Grade

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY & CO.

32 & 33 So. Market St., BOSTON

BRIDGEMAN'S SEED WAREHOUSE RICKARDS BROS.

Props.

37 East 19th St., NEW YORK CITY

CAULIFLOWERS CABBAGE

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

NEWS NOTES.

Robt. Klagge of Mt. Clemens, Mich., declares La Detroit to be the best paying rose on his place.

The Society of Horticulture of Orleans and Loiret, France, has awarded a gold medal to Levavasseur & Sons for their pink "baby rambler" rose, Maman Levavasseur.

The Woman's Club of York, Pa., has inaugurated a movement to convert the public school yards into flower gardens and playgrounds for the children during the summer.

The Gardeners' Chronicle for April 27 contains a supplementary illustration of *Hippeastrum Queen of Spots*, a cross between a show variety and *H. pardinum*. It appears to be a perfect beauty, uniquely spotted carmine on white ground.

The Royal Horticultural Society of London, Eng., awarded the silver gilt Lindley medal on April 30 to the beautiful *Gloriosa Rothschildiana*. An award of merit was given to carnation *Jessica*, color "white flaked with scarlet." Any relative of our *Jessica*?

A new rambler rose named *Tausendschon*, of German origin is well spoken of in foreign horticultural journals. The flower is described as large—nearly three inches across—fairly double, five to eight in a cluster, color pink suffused yellow. Its habit of blooming clear down to the base indicates future popularity as a pot plant.

There are on exhibition in the glass show case in Welch Brothers' establishment in Boston several seedling carnations raised by John Barr, one of which is to all appearances a highly improved *Victory*. In color, form, fragrance and habit it strongly resembles that famous variety, but the flower is considerably larger and more symmetrically built. It is surely worth watching.

MONTREAL NOTES.

The weather still continues very cold and but little planting or seeding has been done. The trade in general is complaining of dullness. The seed people are not rushed as usual owing to the backward spring.

There have been many changes among the florists this spring. S. S. Bain has given up his Beaver Hall store; Jos. Bennett has gone out of the retail business, and is missed from the place on Windsor street that he occupied so long; D. J. Sinclair has closed his branch here, and Mrs. Graves has retired from business. We hear that Mrs. White will go out of business and Baker of Longueville will probably succeed her. Drennan of Westmount is also looking for a place to locate. Mr. Gray, late Montreal manager for Sinclair, has taken full charge of the Wright store on St. Catherine street. He took the third prize for window decoration for the Horse Show held last week.

The Dutchmen have shipped large consignments of roses, palms and other stock to the auction rooms lately, where they were sold for anything they would bring. This injures the trade to a very large extent.

Spring Bedding Plants

Crimson Ramblers

strong, shapely plants with an abundance of flowers, 7-in., 50c, 75c, \$1.00 each.

Baby Ramblers, 5-in., 20c, 25c each; 6-in., 35c, 50c each.

Cannas, strong plants, \$10, \$12.50, \$15, \$20 per 100.

Crotons, assorted varieties, \$25, \$35, \$50 per 100.

Hydrangeas, \$20, \$25, \$50, \$75 per 100.

Periwinkle, extra long, 4-in., \$15, \$18 per 100.

Geraniums, 4-in., all colors, \$8, \$9 per 100.

Coleus, 3-in., \$4, \$4.50 per 100.

Alternanthera, 2½-in., red and yellow, \$4.00 per 100.

Hardy Ivy, 3 and 4-in., \$10, \$12.50, \$15 per 100.

Also a General Assortment of Miscellaneous Bedding and Basket Plants

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA.

1608-1618 Ludlow St.

PERSONAL.

A. W. McIntosh has recently been appointed chief gardener at the Soldiers' Home, Togus, Maine.

W. J. Marshall of Togus, Me., has taken a position with the Copeland Street Greenhouses, Campello, Mass.

The marriage of Philip Lunden of Olsen & Lunden, Southington, Ct., to Miss Anna Olsen of Plantsville is announced.

Madison Miesse of Lancaster, Ohio, one of the largest market-gardeners and forcers of lettuce and tomatoes, has secured the services of Fred Windmiller, who has lately been with the Cleveland Cut Flower Company.

Park Commissioner Philip Breitmeyer and Secretary M. P. Hurlbut of the Detroit park department are visiting Boston on a tour of inspection of park roads, bathing houses, etc., under conduct of W. W. Castle, J. A. Pettigrew, P. Welch and W. J. Stewart.

BUSINESS CHANGES.

Jonas Brooks has purchased the Summit street greenhouses, Woonsocket, R. I., from Thos. H. Greene.

The Ozark Nursery Co., Tahlequah, Okla., has absorbed the Ben Davis Nursery, Bentonville, Ark., and the Parker Nurseries, Fayetteville, Ark.

G. H. Chapman of St. Johns, Mich., who purchased at auction the portable house and greenhouse stock of C. H. Manley, has formed a stock company for the purpose of erecting suitable buildings and gaining facilities for carrying on the business.

OBITUARY.

A. M. Pitt, for the past 20 years in the florist business in Hudson, Mass., died on April 21, aged 65.

John V. Walker of Sharpsburg, Pa., for the past four years gardener for Mr. Harry Darlington, died on May 1, aged 71 years. A widow and several sons and daughters survive him.

THE GLASS MARKET.

At the present moment practically all the hand operated window glass factories have closed their plants for the summer and will not resume work until some time in the fall, so that the present stocks will have to supply the demand for the next four months at the least.

As greenhouse sizes are in the way of being a specialty and not always turned out in sufficient quantities to meet the demand, it would seem advisable for buyers who are going to need glass during the summer or early fall months to cover themselves on their requirements now. Prices now are on a lower level than they have been at any time since the first of the year, and as present stocks become exhausted it would seem advances should naturally be looked for.

Pittsburg, Pa.—The agreement to close the window glass factories for the annual summer suspension was practically fulfilled on April 20.

Glass plants throughout western Pennsylvania and West Virginia suspended. A number of factories will remain open until the latter part of May.

Fully 20,000 men are affected.

Charles Adams has purchased the greenhouse property of Benjamin St. John, Darien, Ct.

3000 to 4000 Geraniums, S. A. Nutt, Beaute Poitevine, in 3 and 3½ in. pots, \$6.00 per 100.

200 Beaute Poitevine, very large plants, 13-15 inches in diameter, \$6.00 per dozen.

50 Vinca variegata in 8-in. pots, \$6.00 per dozen.

100 Spiraea astilboides grandiflora, \$6.00 per dozen.

Call and inspect the stock before buying elsewhere.

A. C. LAKE

Wellesley Hills - - - Mass.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Dreer's Hardy Perennial Phlox

We are the largest growers of Perennial Phlox in the world. Our collection is unequalled, and we are prepared to furnish the new and rare kinds as well as all the popular and standard varieties in large quantities.

The plants we offer are nearly all strong one-year-old field-grown plants or equally strong divisions, and will make a fine display of flowers this season. This stock is much superior to and must not be confounded with young Winter propagated stock such as is generally sent out in the Spring of the year.

New and Rare Hardy Phlox and Varieties of Special Merit

	Per doz.	100	1000
Albion (Tall). A variety which originated with us several years since and which is now offered for the first time. Strong grower, pure white with faint aniline red eye.....	\$1.50	\$10.00	\$90.00
Chateaubriand (Medium). Pure white, with crimson carmine eye.....	1.25	8.00	70.00
Coquelicot (Dwarf). A fine pure scarlet.....	.95	6.00	50.00
Etna (Medium). Crimson red, suffused with fiery red.....	1.25	8.00	70.00
Edmond Rostand (Medium). Reddish violet, with large white star-shaped center.....	1.50	10.00	90.00
F. G. von Lassburg (Tall). The finest white in cultivation, pure in color, a strong, vigorous grower.....	2.00	15.00	125.00
H. O. Wijers (Tall). A fine large pure white, with crimson carmine eye.....	1.25	8.00	70.00
Independence (Tall). An excellent large flowering early white.....	.85	6.00	50.00
Lamartine (Tall). Very bright magenta, with large white center.....	1.25	8.00	70.00
Le Mahdi (Tall). Deep reddish violet, darker eye.....	1.25	8.00	70.00
Mrs. Jenkins (Tall). An early flowering, pure white, forming an immense panicle, one of the best.....	1.50	10.00	90.00
Stella's Choice (Tall). A mauve branching late white variety.....	.85	6.00	50.00
Selma (Tall). Pale rose mauve with distinct claret red eye.....	1.50	10.00	90.00

Choice Standard Phloxes

Aquillon (Tall). Bright Tyrian rose.
Andreas Hoffer (Medium). An early and continuous flowering pure white.
Bouquet Fleuri (Dwarf). Pure white, with crimson-carmine eye.
Bridesmaid (Tall). White, with large crimson carmine center.
Bacchante (Tall). Tyrian rose.
Colibri (Tall). White, with crimson-carmine center, late.
Champs Elysee (Medium). Bright rosy magenta, an effective shade.
Crystal Palace (Tall). Lilac with white markings.
Cross of Honor (Medium). White, with a band of reddish violet through the center of each petal.
Cyclon (Dwarf). White, suffused with lilac.
Eclairer (Tall). Brilliant rosy magenta, with light halo.
Eugene Danzenviller (Tall). Lilac, shading white toward the edges.
Esclarmonde (Tall). Lilac, washed with white.
Edmond Audrand (Medium). Deep mauve.
Fantome (Tall). Bluish lilac, washed with white.
Graf von Ungerer (Tall). White, suffused with rosy-lilac.
Inspector Peiker (Tall). Purplish mauve, washed with white.
Jeanne d'Arc (Tall). A late flowering pure white.
La Vogue (Medium). Pure mauve, with aniline red eye.
La Soliel (Medium). Rosy magenta, with light halo.
Mollier (Tall). Bright rosy magenta, with light halo.
Mozart (Tall). White, suffused with salmon.
Miramar (Dwarf). Reddish violet with white markings.



Mme. Marie Kuppenheim (Dwarf). A fine late pure white.
Offenbach (Dwarf). Lilac purple, lighter shadings.
Obergartner Wittig (Medium). Bright magenta, the best of its color.
Pecher d'Islande (Tall). Crimson-red, suffused with cochineal red.
P. Bonnetaine (Medium). Deep rosy magenta.
Professor Schlieman (Tall). Pure mauve with crimson-carmine eye.
Roxelane (Tall). Reddish violet with aniline red eye.
Sunshine (Dwarf). Aniline red with lighter halo.
Simplon (Tall). White with aniline red eye.
Semiramis (Tall). Rosy magenta with lighter center.
Schlossgartner Reichenau (Dwarf). Solferino, red.
Thebaide (Dwarf). Carmine lake with brighter shadings.
Talma (Dwarf). Rosy magenta, small white eye.
Wm. Muhle (Tall). Carmine-purple with crimson eye.
PRICE—Choice Standard Varieties. Strong Plants, 75c. per doz.; \$5.00 per 100. \$40.00 per 1000.

Phlox Subulata

Moss Pinks or Mountain Pinks

Alba. White.
Altropurpurea. Purplish rose.
Lilacina. Light lilac.
Nelsoni. Pure white.
Rosea. Bright rose.
The Bridesmaid. Purplish tinted white with deeper eye.
All the above in strong clumps, 75c. per doz.; \$5.00 per 100; \$40.00 per 1000

Phlox—Various Types

	Per doz.	Per 100
Amoena . Clumps.....	\$0.75	\$6.00
Divaricata Canadensis . 3-in. pots.....	.75	6.00

For complete list of hardy Perennial Plants, see our current Quarterly Wholesale List just issued

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA

The above prices are only for Florists, or those engaged in the trade

SEASONABLE STOCK

In A No. 1 Condition

	From 2 in. Pots	100	1000
Hardy Chrysanthemums , Large-flow- ering or Aster.....	\$3.00	\$25.00	
Hardy Chrysanthemums , Small-flow- ering or Button.....	2.00	18.00	
Geraniums , Standards and Novelties.....	2.00	18.00	
Alternantheras , 6 varieties, strong.....	2.00	18.00	
Lemon Verbenas , (Aloysia citriodora).....	2.00	18.00	
Verbenas , white, scarlet, purple and striped.....	2.00	17.50	
Petunias , Dreer's Single.....	2.00	17.50	
" Double, fringed.....	3.00	25.00	
Salvias	2.00	17.50	
And other Bedding Stock. Send for List.			
Cash with Order, Please.			

R. VINCENT JR. & SON

Growers of Plants for the Trade. WHITE MARSH, MD.

Bedding Plants

I have the following stock to offer in any size and in any quantity:

Salvia { **SPLENDENS**
BONFIRE
ST. LOUIS

COLEUS in eight varieties
AGERATUM, dwarf blue
GERMAN IVY
HELIOTROPE, Little Giant
RANBLER ROSES in 6, 7 and 8 in. pots

JOHN SCOTT

Rutland Road and East 45th St.

Telephone 2890 Bedford. BROOKLYN, N. Y.

Geraniums & Geraniums

The following varieties, in 4 in. pots, in bud and bloom, in fine condition. \$6 per 100.

S. A. Nutt, **Beaute Poitevine**, **LaFayette**, **John Doyle**, **Bruanti**, **Marq. Castellane**, **Trego**, **Buchner**, **Richard Brett**, **Ricard**, **F. Perkins**, **Jean Viaude**, **Double Grant**, **Marq. de Montmort** and several others.

Selection of sorts to remain with us.

Cash to accompany all orders.

J. E. FELTHOUSEN

154 Van Vranken Av., SCHENECTADY, N. Y.

DECORATION DAY FLOWERS

An immense supply of lilies, carnations, roses, lilacs, stocks, spiraea, etc., especially growing for this purpose. Also, baskets, wire frames, inscriptions, immortelles, wild ferns and other green material. All at Lowest Wholesale Prices.

THE OUTDOOR SUPPLY

will be scanty this year and the Greenhouse Crop will be in Unprecedented Demand.

WE CAN SUPPLY YOU

and at

Lowest Wholesale Prices

BUT WE WANT TO KNOW YOUR WANTS EARLY

N. F. MCCARTHY & CO., 84 Hawley St., Boston, Mass.

NEWPORT (R. I.) NEWS NOTES.

Joseph Leikens will open his store on Bellevue avenue next week, to be in a position to do business for Memorial Day.

Mr. and Mrs. Carl Jurgens, Jr., visited the Jamestown exhibition, and returned last week, well satisfied with their trip and the exhibition.

The influx of a number of cottagers and others during the past week has improved business conditions a good deal. As a matter of fact, cut flowers are selling better now than a month ago, Beauties especially.

For two weeks or more members of the government staff for the suppression of the gypsy moth were in Newport, hunting for evidence of its presence, but up to the time when they had diligently examined every tree in the city no such evidence came up.

Mr. James Murray has so far recovered from his illness as to be able to be removed to the new home of his family on Carroll and Harrison avenues. He is yet far from well, however, and with but little hope of his immediate recovery, his family prevailed upon him to give up absolutely his connection with the estate of Henry Clews.

There promises to be considerable interest taken in the matter of school gardens in Newport this year, and particularly in the competition for the cash prizes offered by the Newport Horticultural Society for the best kept gardens as well as products either of flowers and vegetables or both exhibited by school children, not neces-

sarily from school gardens. Mr. Lull, the superintendent of schools, and other persons in authority are doing considerable to further this interest.

The dealers are now beginning to lay in quantities of bedding plants for show purposes, and considering how cold the weather has been, the number that is being disposed of is wonderful. The planting of trees of all kinds and of shrubs is now in full swing, and it looks as if the rush incident thereto will last up to the time when the advance of vegetation will compel its abandonment. Several private places are undergoing a thorough overhauling and replenishing, necessitating the planting of large numbers of various kinds of trees, evergreen and deciduous. Notably among them are the estates of W. S. Wells and E. J. Berwin, both of which seem to periodically undergo treatment for their better adornment. And it is unmistakably a fact that in both cases each change seems to be a decided improvement, but, of course, to help that consummation there is either an increase of acreage or the expenditure of an almost unlimited amount of money, and may be both, with the still further assistance of two adept craftsmen of well known ability and taste for the performance of such undertakings. D. M.

FIRE RECORD.

Fire in the early morning of May 8, started in the greenhouse of G. W. & W. A. Temple, Woodville, Mass., but was extinguished before much damage was done. The loss was covered by insurance.

PHILADELPHIA NOTES.

William J. Moore has accepted a position with the S. S. Pennock-Meehan Co.

Jno. Burton was one of the arbitrators on the Farenwald greenhouse accident and discharged his duties to both sides in his usual fair-minded and businesslike style.

Much satisfaction is expressed here on the good work done by the S. A. F. in their fight with the United States Express Co. This victory affects the whole trade whether they be members of the National Society or not. Its a good answer to the tight ones who ask, "What's the society ever done for me?" when they are asked to turn in and help the work for the general good. Especially is the president of the society to be congratulated for having put up such a good fight—and almost single-handed, at that.

DETROIT IMPROVEMENTS.

The idea of transforming certain residential streets into boulevards to connect various city parks has received a new start in Detroit. A number of gentlemen who years ago formed the North End Improvement Club are seeking ways and means whereby Second Avenue will be widened to connect Cass Park, located inside the two-mile circle with Palmer park, about six miles north of it. Park Commissioner Breitmeyer and other city officials are lending a strong support to this plan and the State legislature will be asked for the needed amendment to the City charter.

NEWS NOTES.

Detroit reports a snow storm on May 11.

John Reese succeeds Miss Koch at 301 Flatbush Ave., Brooklyn, N. Y.

Joseph E. Cornell of Danbury, Ct., will move into larger quarters at 91 White St.

Alden Taylor has accepted a position with J. R. Morgan & Son, Glas-tonbury, Ct.

H. W. Hastings has closed out his florist business in the Purnell annex, S. Manchester, Ct.

Parse Bros. succeed Dean & Parse at Summit, N. J., W. S. Parse having purchased Mr. Dean's interest.

Albert B. Tuck, florist of Gloucester, Mass., has filed a petition in bankruptcy. Liabilities, \$1282; assets, \$520.

It is now A. C. Oelschig & Sons, Savannah, Ga., the second son of Mr. Oelschig having recently been admitted to partnership.

C. E. Robinson of Tarrytown, N. Y., and H. W. Requa have started in the retail florist business at 808 South street, Peekskill, N. Y.

Timothy Mullins has resigned his position with F. B. Fountain Co., Middleton, and will take charge of the conservatory of C. N. Jarvis of Berlin, Ct.

The Fleischman Floral Co. has opened a new and very attractive store in the Arcade of the United States Express Building, corner of Rector Street and Trinity Place, New York.

R. B. & A. B. Graves, florists, Northampton, Mass., will plant 23 acres to vegetables this spring, and contemplate the addition of houses for the purpose of continuing the industry in the winter.

G. H. Davis, Cambridge, Mass., who was recently restrained from selling flowers on Sunday except for purposes of necessity or charity, has entered complaint against L. W. Reyeroft, who has been doing a retail flower business in his drug store on Sunday. Reyeroft will make this a test case, and on being fined \$1 by the court, appealed and the case will go to the superior court.

Always call for the

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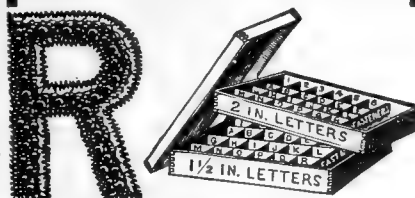
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DENVER, COLORADO

JACOB SCHULZ, 644 Fourth Ave.,
LOUISVILLE, KY.
Cut Flowers of BEST QUALITY in season
delivered promptly to any address.
Write, Telegraph or Telephone.
Cumberland and Home Phones 223 and 984.

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

JOHN BREITMEYER'S SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

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P. J. HAUSWIRTH

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will carefully execute orders for Kansas City and any town in Missouri or Kansas.

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We ship to all points in Illinois and Iowa.

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41 Peachtree Street, ATLANTA GEORGIA.

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by . . .

Thomas Young, Jr.

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ALEX. McCONNELL

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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

WILLIAM H. DONOHUE

FLORAL DECORATOR

Special Attention to Theatre and Steamer Orders and reliable deliveries guaranteed

2 West 29th St., New York
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Deliver orders from any part of the country to New York City

Or OUT-GOING STEAMERS

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42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"



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Geo. H. Cooke FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

Send flower orders for delivery in
BOSTON

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NEW ENGLAND POINTS

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THOS. F. CALVIN
124 Tremont St., Boston

Theodore Miller FLORIST

Long Distance Phones: Bell, Forest 56; Kinloch, Delmar
4332 Delmar Boul. ST. LOUIS, MO.

Gattleya Mossiae

VERY CHOICE FLOWERS

\$50.00 per 100

LEO NIESSEN CO. WHOLESALE FLORISTS

1209 Arch St., PHILA.

Store open from 7 A. M. to 8 P. M.

SPECIAL OFFERINGS

In Choice

CARNATIONS and ROSES

(IN LOTS OF 200, OR MORE.)

Write for prices

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

1608-1618 LUDLOW ST.

Store closes at 8 p. m.

EVERYTHING SEASONABLE IN CUT FLOWERS

EDWARD REID, Wholesale Florist

1526 Ranstead St., PHILADELPHIA
Store Closes 8 P. M.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

GEO. A. SUTHERLAND CO.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

CHOICE VALLEY and SWEET PEAS

W. E. McKISSICK

Wholesale Florist

1221 Filbert St., PHILADELPHIA

Cut Flowers

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Florists', Growers and Nurserymen's
Supplies

A. L. RANDALL CO., 19-21 Randolph St. CHICAGO.
Catalog mailed upon request

DAILY CONSIGNMENTS

From 40 to 60 Growers

We can care for your cutflower wants to advantage.

E. F. WINTERSON CO.

45-47-49 WABASH AVE., CHICAGO

ROBERT J. DYSART,

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Simple methods of correct accounting
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51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
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PETER REINBERG
WHOLESALE

CUT FLOWERS

51 Wabash Av., Chicago, Ill.

In writing advertisers mention Horticulture

AMERICAN BEAUTY and all other ROSES

LILY OF THE VALLEY, CARNATIONS

WELCH BROS., 226 Devonshire St., Boston, Mass.

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO May 13	TWIN CITIES May 13	PHILA. May 13	BOSTON May 9
ROSES				
Am. Beauty, Fan. & Sp.	25.00 to 30.00	3.00 to 4.00	20.00 to 25.00	20.00 to 25.00
" Extra.....	15.00 to 20.00	2.00 to 3.00	12.00 to 15.00	15.00 to 20.00
" No. 1.....	10.00 to 12.00	..... to	8.00 to 10.00	8.00 to 10.00
" Lower grades.....	6.00 to 8.00	..... to	5.00 to 8.00	2.00 to 6.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	6.00 to 8.00	8.00 to 10.00	6.00 to 8.00
" " Extra.....	4.00 to 5.00	4.00 to 6.00	4.00 to 6.00	3.00 to 4.00
" " No. 1 & lw. gr.	2.00 to 3.00	2.00 to 4.00	2.00 to 3.00	.50 to 2.00
Liberty, Richmond, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	8.00 to 12.00
" Lower grades.....	3.00 to 5.00	4.00 to 6.00	6.00 to 8.00	.50 to 6.00
Chatenay, Morgan, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	8.00 to 10.00	4.00 to 6.00
" Lower grades.....	3.00 to 5.00	4.00 to 6.00	3.00 to 5.00	.50 to 3.00
Killarney, Wellesley, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	5.00 to 10.00	6.00 to 8.00
" Lower grades.....	3.00 to 5.00	4.00 to 6.00	3.00 to 4.00	.50 to 4.00
CARNATIONS				
Fancy and Novelties.....	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00	2.00 to 3.00
Ordinary.....	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00	1.00 to 1.50
MISCELLANEOUS				
Sweet Peas.....	.50 to 2.00	..... to .....	.50 to 1.50	.50 to 1.00
Cattleyas.....	40.00 to 50.00	..... to	40.00 to 50.00	35.00 to 50.00
Tulips, Daffodils.....	3.00 to 4.00	..... to	2.00 to 3.00	.50 to 1.00
Lilies.....	12.00 to 15.00	12.50 to 15.00	12.00 to 15.00	6.00 to 8.00
Callas.....	10.00 to 12.00	12.50 to 15.00	12.00 to 15.00	6.00 to 8.00
Lily of the Valley.....	2.00 to 4.00	2.00 to 3.00	3.00 to 4.00	.50 to 2.00
Gardenias.....	2.00 to 4.00	..... to	15.00 to 20.00	10.00 to 25.00
Mignonette.....	4.00 to 8.00	..... to	3.00 to 4.00	1.00 to 2.00
Lilacs (100 bunches).....	25.00 to 50.00	..... to	10.00 to 15.00	25.00 to 50.00
Peonies.....	6.00 to 8.00	..... to .....	..... to .....	..... to
Adiantum.....	.75 to 1.50	..... to	1.00 to 1.50	1.00 to 1.50
Smilax.....	12.00 to 20.00	..... to 30.00	12.50 to 15.00	12.00 to 16.00
Asparagus Plumosus, strings.....	35.00 to 50.00 to 50.00	35.00 to 50.00 to 50.00
" " & Spren. (100 bchs.)	35.00 to 50.00 to	35.00 to 50.00	35.00 to 50.00

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and 9 Chapman Place,

See our Greens Advertisement on page 667.

L. D. Telephone, Main 2618.

CUT FLOWER MARKET REPORTS

BOSTON Market is still in a very dull condition here, there being an abundance of all kinds of florists' flowers but a demand entirely unequal to the distribution of same at any respectable figure. The main thought now is for Memorial Day and there is much speculation as to the supply that will be available for that occasion. Much depends upon the weather but, fortunately, the greenhouse crop will be sufficiently large to make a good showing, regardless of what the garden may yield.

BUFFALO Santa Claus and the Queen of May met last week. Snow storm in May time did not affect indoor social affairs and plans for the June ahead are going on apace. The supply of flowers has been somewhat short, especially carnations, which had been plentiful enough to supply more than the average buyer. Beauty, Richmond and other roses are in fine quality; good stock sells well but ordinary stuff drags. Lilies are in good demand but seem to be scarce; lily of the valley, peas, etc., are plentiful. Violets are still on the bill of fare but demand rather light. Although on Saturday a good amount was disposed of, the bargain sign of course had to be displayed.

COLUMBUS While it stays as cold as it is now, no one will even think of leaving the city for the summer; and thus it is that week after week florists are doing an especially good business in all lines. Cut-flowers are fine in quality, and with the one exception of carnations, in ample supply for all purposes. Carnations have kept up so

well in price, that very few fakirs are on the streets, which fact helps maintain retail values to a very great extent. There are yet some violets to be had and we are receiving the finest sweet peas of the season. The whole craft are now looking forward to the trade of Memorial Day, which has become such a feature here.

DETROIT Business quiet. Anyone seeing the snow storm which prevailed here last Friday might suppose we were nearer to Thanksgiving than Decoration Day. The old saying that there is no ill wind which does not blow good for somebody is true again. The rose and carnation growers are reaping good prices, with a supply below the demand. The former are very scarce. On the other side we find the plant grower apparently waiting in vain for an opportunity to dispose of his geraniums, etc. Violets are still in the market, finding a ready sale. Smilax is still very scarce, but the supply of ferns is a little more liberal.

INDIANAPOLIS The weather so far for the month of May has proven unseasonable. As a consequence there is no glut in any line. Business remains good and prices about the same. The quality and quantity of roses, including Beauties, continues good, and good prices prevail.

Carnations hold their own as to quality and price. Sweet peas are in brisk demand, some fine stuff being seen. Lilies and smilax are scarce while bulbous stock is entirely off the market. A heavy increase in the quantity of bedding stock grown this season is noticeable and appears to be farther ad-

vanced and will be in better condition when needed. The cool weather still prevents anything being done in landscape gardening. The prospects are that Decoration Day stock will be very scarce.

NEW YORK Cut flower stock is on the increase in all lines and, as seems to be the inevitable rule at such times, trade is very dull at the markets and in the retail stores generally. Prices are descending as a natural consequence, and with the warmer weather now in sight improvement in this regard is hardly to be looked for until the Memorial Day hustle begins. For this special occasion the outlook is rather dubious as to supply.

PHILADELPHIA The volume of business in the Philadelphia market is fairly normal. Of course stock is coming in very freely and often in such volume as to swamp the market. Especially is this the case in roses, lily of the valley and one or two other staples. In carnations the situation is not so bad. But prices have weakened and are at present very much in buyers' favor. As Decoration Day approaches a healthier tone will prevail, and it will be wise to arrange for important contracts in advance. Grave doubts are expressed as to the local peony crop being on time. Peonies are about seven days later than last year at this writing. But a few warm days sometimes does wonders. The effect on business generally on account of the cool weather—whatever it may have been in other lines—cannot be said to have been bad for general hor-

Continued on page 673.

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WHOLESALE FLORIST
 Finest American Beauties and
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 48 West 28th Street, NEW YORK
FINE ROSES FANCY CARNATIONS
 A Full Line of All CUT FLOWERS
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**106 W. 28 St.,
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**TELEPHONE 167
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All Grades of Flowers for All Grades of Buyers

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending May 11 1907	First Half of Week beginning May 13 1907		Last Half of Week ending May 11 1907	First Half of Week beginning May 13 1907
Roses			Carnations, Ordinary	1.50 to 2.00	1.50 to 2.50
Am. Beauty, fan and sp.	12.00 to 20.00	15.00 to 25.00	Sweet Peas	3.00 to 8.00	.00 to 10.00
" extra	8.00 to 10.00	8.00 to 12.00	Cattleyas	40.00 to 50.00	40.00 to 50.00
" No. 1	5.00 to 8.00	5.00 to 8.00	Tulips, Daffodils	1.50 to 2.00	2.00 to 3.00
" Lower grades	1.00 to 3.00	1.00 to 3.00	Lilies	4.00 to 8.00	6.00 to 8.00
Bride, 'Maid, Golden Gate, fan & sp	4.00 to 6.00	5.00 to 6.00	Callas	4.00 to 6.00	4.00 to 6.00
" " " Extra	3.00 to 4.00	3.00 to 5.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
" " " No. 1 & lw. gr.	1.00 to 3.00	1.50 to 5.00	Gardenias	5.00 to 20.00	5.00 to 20.00
Liberty, Richmond, fancy & special	8.00 to 12.00	10.00 to 15.00	Mignonette	1.00 to 3.00	1.00 to 3.00
" lower grades	1.50 to 4.00	2.00 to 5.00	Lilacs (too bunches)	10.00 to 25.00	10.00 to 25.00
Chatenay, Morgan, fancy and spec.	4.00 to 6.00	4.00 to 6.00	Peonies	.50 to 1.00	.50 to 1.00
" lower grades	1.00 to 3.00	1.00 to 3.00	Adiantum	10.00 to 15.00	10.00 to 15.00
Killarney, Wellesley, fan. and spec.	4.00 to 8.00	5.00 to 8.00	Smilax	25.00 to 35.00	25.00 to 35.00
" lower grades	1.50 to 3.00	1.50 to 3.00	Asparagus Plumosus, strings	15.00 to 25.00	15.00 to 25.00
Carnations, Fancy and Novelties	3.00 to 5.00	3.00 to 5.00	" " & Spreng. (too bchs.)		

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WM. STUART ALLEN CO.
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53 WEST 28TH STREET, NEW YORK
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\$2.50 Case of 10,000

Let us have your standing order for Fern.

BOXWOOD 20c lb., 50 lbs. \$8.50

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And all kinds of Seasonable Flowers

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SIZES IN STOCK

per 100

3 x 4 x 20 \$4.00

3 x 5 x 24 4.50

3 x 7 x 21 4.50

6 x 6 x 24 6.80

4 x 12 x 24 9.00

6 x 12 x 24 10.50

6 x 12 x 30 12.50

5 x 12 x 36 14.00

6 x 12 x 36 15.00

6 x 15 x 42 20.00

6 x 15 x 48 23.00

Write for samples and prices in car load lots.

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FANCY and DAGGER FERNS

SELECTED STOCK

Fancy, \$1.75 per 1000; Daggers, \$1.50 per 1000.

Laurel Festooning, best made, 4c, 5c and 6c per

yard; once used, always used. Laurel Wreaths,

\$3.00 per doz.; cheaper grades if wanted. Southern

Smilax, fancy stock, 50-lb. cases, \$5.50. Branch

Laurel, 35¢ per bunch. Princess Pine, 7c per lb.

Brilliant, Bronze or Green Galax, No. 1 stock,

75c per 1000, or \$6.50 per case of 10,000.

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CROWL FERN CO., Millington, Mass.

NEW CROP DAGGER AND FANCY FERNS

\$2.00 per 1000.

WE HAVE VERY FINE CUT BOX WOOD.

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Per 1000, \$1.00; Case of 10,000, \$7.50

Best Southern Smilax, \$3.50 and \$7 per case.

Headquarters for all FLORISTS' SUPPLIES. Wire Designs,

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	CINCINNATI May 13	DETROIT May 13	BUFFALO May 13	PITTSBURG May 13
ROSES				
Am. Beauty, Fan. and Sp.	20.00 to 25.00	17.00 to 25.00	20.00 to 22.00	20.00 to 25.00
Extra	15.00 to 20.00	10.00 to 15.00	15.00 to 20.00	12.50 to 15.00
No. 1	6.00 to 8.00	3.00 to 10.00	8.00 to 15.00	6.00 to 8.00
Lower grades	5.00 to 6.00	3.00 to 8.00	3.00 to 5.00	2.00 to 4.00
Bride, 'Maid, Golden Gate, F. & S.	5.00 to 6.00	5.00 to 7.00	7.00 to 8.00	7.00 to 8.00
Extra	3.00 to 4.00	3.00 to 5.00	6.00 to 7.00	4.00 to 6.00
No. 1 & l.w. gr.	4.00 to 6.00	3.00 to 5.00	10.00 to 15.00	8.00 to 12.00
Liberty, Richmond, Fan. & Sp.	4.00 to 6.00	3.00 to 5.00	3.00 to 10.00	4.00 to 6.00
Lower grades	4.00 to 6.00	3.00 to 5.00	10.00 to 15.00	8.00 to 12.00
Chatenay, Morgan, Fan. & Sp.	4.00 to 6.00	3.00 to 5.00	3.00 to 10.00	4.00 to 6.00
Lower grades	4.00 to 6.00	3.00 to 5.00	10.00 to 15.00	8.00 to 12.00
Killarney, Wellesley, Fan. & Sp.	4.00 to 6.00	3.00 to 5.00	3.00 to 10.00	4.00 to 6.00
Lower grades	4.00 to 6.00	3.00 to 5.00	10.00 to 15.00	8.00 to 12.00
CARNATIONS				
Fancy and Novelties	2.00 to 3.00	3.00 to 4.00	2.50 to 3.00	3.00 to 4.00
Ordinary	1.00 to 2.00	3.00 to 4.00	1.50 to 2.50	1.00 to 2.00
MISCELLANEOUS				
Sweet Peas	.50 to .75	.50 to 1.00	.40 to 1.00	.25 to 1.00
Cattleyas	50.00 to 100.00	50.00 to 100.00	50.00 to 100.00	50.00 to 100.00
Tulips, Daffodils	2.00 to 3.00	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00
Lilies	10.00 to 12.00	15.00 to 20.00	8.00 to 12.00	8.00 to 12.00
Callas	8.00 to 10.00	15.00 to 20.00	8.00 to 10.00	8.00 to 12.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Gardenias	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Mignonne	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Lilacs (100 bunches)	75 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Peonies	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Adiantum	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax	10.00 to 12.50	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00
Asparagus Plumous, strings	40.00 to 50.00	50.00 to 60.00	40.00 to 50.00	30.00 to 50.00
& Sprea. (100 bchs.)	20.00 to 25.00	20.00 to 30.00	25.00 to 50.00	30.00 to 40.00

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Natural Sheet Mosses

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ASPARAGUS

C. Eisele,
11th and Roy Sts., Philadelphia, Pa.
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Asparagus Sprengerii, good vines, 4 in., \$8.00 per 100. Krueger Bros., Toledo, O.

Asparagus plumosus nanus and Sprengerii, 2 1-2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

	Per 100
1000 3 in. pots Asparagus Sprengerii,	\$3.00
2000 2 1-4 in. pots Enchantress Carnation	2.50
3000 2 1-4 in. pots Boston Ferns...	3.00
200 3 in. pots Lemon Verbena...	6.00
200 3 1-2 in. pots Rose Geraniums...	7.00
2000 3 1-2 in. pots Geraniums...	7.00
2000 2 1-4 in. pots Glechoma and German Ivy	2.00
1000 3 1-2 in. pots Tomato, "The Comet"	4.00

Cohanzie Carnation Greenhouses, New London, Conn.

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Asters, extra early Queen of the Market, white, pink purple, etc., \$2.00 per 1000, ready now. Semple's Branching in June. B. Fryer, Johnstown, Pa.

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C. Eisele, 11th and Roy Sts., Phila.
Spring Bedding Plants.
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R. Vincent, Jr., & Son, White Marsh, Md.
For page see List of Advertisers.

John Scott, Rutland Road & 45th St., Brooklyn, N. Y.
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100,000 Bedding Plants, all sorts. Write for prices. E. D. Kaulback & Son, Malden, Mass.

Spring Bedding Plants in variety at auction every Tuesday and Friday during spring season. Purchases made on order. Mail your bid. N. F. McCarthy & Co., 84 Hawley St., Boston.

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Tuberous Begonias.
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A. T. Boddington, 342 W. 14th St., New York.
Tuberous Begonias.

Begonia Dew Drop, 2 1-2 in., \$1.50 per 100; \$15.00 per 1,000. S. W. Carey, Florist, Urbana, Ohio.

Begonia Gloire de Lorraine. Extra fine. 2 1-4 inch pot. Leaf cutting \$12 per 100; \$100 per 1000. Delivery May 1st. Julius Roehrs Co., Rutherford, N. J.

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Raspberry Plants, 7,000 Gregg Black Raspberry, at \$5 per 1,000. Albert Lawrence, Macedon, N. Y.

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BOILERS. "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

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BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

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Johnson Seed Co., 217 Market St., Phila.
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Lilium Auratum.

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C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

CALADIUMS

Caladium Esculentum, 7 to 9 in., \$2.50 per 100; 9 to 11 in., \$4.50 per 100. T. W. Wood & Sons, Seedsmen, Richmond, Virginia.

CANNAS

The Conard & Jones Co., West Grove, Pa.
For page see List of Advertisers.

Cannas, 1000 each, Allemania, Austria, Burbank, \$1.00 per 100. O. B. Stevens, Shenandoah, Iowa.

10,000 fine potted Cannas, 20 leading sorts, \$4.00 per 100. Send for bargain list of all seasonable stock. Benj. Connell, West Grove, Pa.

Cannas started in sand, \$2.50 per 100; Pennsylvania, Austria, Cinnebar, Mlle. Berat and Chas. Henderson. J. B. Shurtleff & Son, Revere, Mass.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.

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S. S. Skidelsky, 824 N. 24th St., Phila.
Rose Pink Enchantress.

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Chicago Carnation Co., Joliet, Ill.

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A. J. Guttman, 43 W. 28th St., New York.
Carnation Imperial and Pink Imperial.
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F. Dorner & Sons Co., Lafayette, Ind.

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N. Y. Cut Flower Co., 55-57 W. 26th St., New York. J. A. Millang, Mgr.
Carnation Winsor Blooms.

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Hariowarden Greenhouses, Greenport, N. Y.
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Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by Glass.

CEDAR BEAN POLES

1 1-2 inch butt, 5 ft. to 7 ft. long, \$10.00 per 1000; 2 inch butt, 8 ft. long, \$15.00 per 1000; 2 1-2 inch butt, 10 to 12 ft. long, \$22.50 per 1000. H. R. Akers, Chatsworth, N. J.

CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
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Hariowarden Greenhouses, Greenport, New York.

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Rooted cuttings of October Frost and Fidelity Chrysanthemums. \$5.00 per 100. Frank Shearer & Son, Binghamton, N. Y.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

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CUT FLOWER BOXES.

Welch Bros., 228 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

Giant Hybrids transp'l, ready for 2-in. and 3-in., \$3.50 100; \$30.00 1000. Plants grown of seed taken from the cream of my well known strain. Christ. Winterich, Cyclamen Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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Peacock Dahlia Farms, Atco, N. J.
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V. H. Hallock & Son, Queens, N. Y.
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Wm. F. Turner, New Bedford, Mass.

Dahlias, fine, strong bulbs. Also cannas. Write for price list. O. B. Stevens, Shenandoah, Iowa.

Dahlias, 150 varieties, including many European novelties, 3c. and up. What have you to exchange for dahlias? New list free. Adams Supply Co., Lowell, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaena terminalis from bench, fine. \$25.00 100. Carl Bagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

FERNS

Baur Floral Co., Erie, Pa.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitman.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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Nephrolepis Piersoni Elegantissima.
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FICUS

Baur Floral Co., Erie, Pa.
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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2 Bowery, New York.

FLORISTS' LETTERS.

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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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Koral Mfg. Co., 26 Hawley St., Boston.
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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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W. H. Donohoe, 2 W. 29th St., New York.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.
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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Ave and 31st St., Chicago.
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Eyres, 11 N. Pearl St., Albany, N. Y.

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
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Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

GERANIUMS

R. Vincent, Jr., & Son, White Marsh, Md.
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J. E. Felthousen, Schenectady, N. Y.
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Geraniums, 3 1/2 in., in bud, well branched and stocky; Ricard, Poitevine, Nutt, Favorite, Vland and Jaulin, \$6.00 per 100. Hopkins & Hopkins, Chepachet, R. I.

Geraniums in 3 1/2 in. pots, \$7.00 per 100; S. A. Nutt, Jno. Doyle, Double White, etc. J. B. Shurtleff & Son, Revere, Mass.

3,000 S. A. Nutt, 3 in., 3 1/2 in. and 4 in.; \$4.00, \$5.00 and \$6.00 per 100, cash. Fine stock. H. M. Totman, Randolph, Vt.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.
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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

GLADIOLI. Groff's Hybrids, Gold Medal and Silver Trophy Strain, Crawford Strain. Farquhar Hybrid seedlings. JOHN H. UMPLEBY, Lake View, N. Y.

GLASS

Boston Plate & Window Glass Co., Boston.
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GLASS, High Grade. Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE BRACKETS

Buxton & Allard, Nashua, N. H.
Economy Greenhouse Bracket.
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GREENHOUSE BUILDING MATERIAL.

D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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Weathered Co., Box 789, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION. Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HANGING BASKETS

Wm. E. Hielscher, 40 Broadway, Detroit, Mich.
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In writing to Advertisers kindly mention Horticulture

HARDY FERNS AND SUPPLIES

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Fancy and Dagger Ferns.
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Michigan Cut Flower Co., 88 & 40 Broadway, Detroit, Mich.
Fancy Ferns.

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E. A. Heaven, Evergreen, Ala.
Fadeless Sheet Moss.
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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Funkia variegata clumps, \$6.00 per 100.
H. Pladeck, Elmhurst, N. Y.

Strong field grown Hardy Perennials, \$4.00 per 100; Aquilegia, Campanula Carpatica, Campanula Persicifolia Canterbury Bells, Delphinium, Polemonium, Gaillardia, Scotch Pinks, Galega, Chinese Larkspur blue and white, Lychnis Chalcedonica Lychnis Haageana Hybrids, Pyrethrum, Sweet William, Pentstemon and 2 yr. old Mixed Phlox. J. B. Shurtleff & Son, Revere, Mass.

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Johnston Heating Co., 1133 Broadway, N. Y.
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W. W. Castle, 170 Summer St., Boston.
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HOLLYHOCKS

Hollyhocks. Large field-grown plants, \$3.00 per 100. Double in separate colors of red, white, pink, yellow and maroon; also the Allegheny strain. Send for catalogue of hollyhocks, dahlias and hardy plants. W. W. WILMORE, Box 382, Denver, Colo.

HORSES

Useful work-horses for florists' spring work; also florists' delivery wagons, good as new. Edward Higgins, 1 West 28th St., New York.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.

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HYDRANGEAS.

John C. Hatcher, Amsterdam, N. Y.
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INSECTICIDES.

Nicotinide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Louisville, Ky.
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IVIES

Wesley Wait, Newburgh, N. Y.
English Ivies.

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English Ivy, 3 1-2 in., 3 to 5 ft., \$6.00 per 100. Cash. Benj. Connell, West Grove, Pa.

JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.

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KENTIAS

A. Leuthy & Co., Roslindale, Mass.
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Kramer Bros. Foundry Co., Dayton, Ohio.

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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.

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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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David Clarke's Sons, 2139-2141 Broadway, New York.

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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.

Long distance telephone connections.

Eyres, 11 N. Pearl St., Albany, N. Y.

LIVISTONIAS

Livistonia Rotundifolia. Well leaved and clean, \$6, \$9, \$12 per doz. J. Roehrs Co., Rutherford, N. J.

LOBELIAS

NEW—NEW—NEW

LOBELIA KATHLEEN MALLARD
Fine double flower; fine, strong 2 1-2-inch pot; \$5.00 per doz.

Quantity limited. Order at once.
J. Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MOON VINES

Godfrey Aschmann, 1012 Ontario St., Phila.
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MOSCHOSMAS

Moschosma riparium, a valuable new Christmas flowering plant. Write for descriptive circular and price list. Chas. H. Totty, Madison, N. J.

NIKOTEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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Specimen Nursery Stock.
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The Wm. H. Moon Co., Morrisville, Pa.
American Arborvitae.

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Oak Hill Nurseries, 114 Poplar St., Roslindale, Mass.

Berberis Thunbergii.

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Henry A. Dreer, Philadelphia.
Rhododendrons, Boxwood Edging, Hardy Shrubs and Border Perennials.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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Nursery Stock. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

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Importers, Exporters, Growers, Hybridists.
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Orchids, Orchid Baskets, Peat.

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Stebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.

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PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Large, strong transplanted Pansy Plants. Dreer's Royal Exhibition and Vaughan's International, \$1.00 per 100; \$7.50 per 1,000; smaller transplanted, \$5.00 per 1,000. Send for sample and price list of other plants. Frank Shearer & Son, Binghamton, N. Y.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

PHLOXES.

Henry A. Dreer, Philadelphia.
Hardy Perennial Phloxes.
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PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp.. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMROSES.

200 Primroses, hardy, large-flowered, yellow, clumps, \$8.00 per 100, cash. Frank J. Geyer, 199 Park Ave., Rochester, N. Y.

RAFFIA

Raffia, prime long fiber, sound and strong, ten cents the pound, nine dollars the hundred pounds; terms cash. A. Rolker & Sons, New York. P. O. Box 759.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Bay State Nurseries, No. Abington, Mass.
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Thomas Roland, Nahant, Mass.
Lady Gay Roses.
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John C. Hatcher, Amsterdam, N. Y.
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A. N. Pierson, Cromwell, Conn.
Grafted Roses, Own-Root Beauties.

Montrose Greenhouses, Montrose, Mass.
Grafted Bride and Bridesmaid Roses.

Low-budded roses, No. 1, \$95.00; No. 1-12, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

Tuberose, dwarf excelsior pearl; first size, \$1.00 per 100; \$7.50 per 1000; second size, 60c. per 100; \$5.00 per 1000. T. W. Wood & Sons, Seedsmen, Richmond, Virginia.

Own root roses, 2 years. C. Ramblers, \$7.00; Dorothy Perkins, P. W. and Y. Ramblers, \$5.00; H. P. roses and Baby Ramblers, \$8.00 per 100. Gilbert Costich, Rochester, N. Y.

Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1/4-in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SALVIAS

C. Elsele.
11th and Roy Sts., Philadelphia, Pa.
Salvia Bonfire.
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Salvias, 2 1/2 in., \$1.50 per 100; \$15.00 per 1000. Achyranthos, \$1.50 per 100; \$15.00 per 1000. S. W. Carey, Florist, Urbana, Ohio.

Salvia splendens, 2 1/2 in., \$2.00 per 100; 3 in., \$3.00 per 100; 4 in., \$6.00 per 100. Krueger Bros., Toledo, O.

SEEDS

T. J. Grey & Co., 32 So. Market St., Boston, Mass.
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Joseph Breck & Sons
51 and 52 N. Market St., Boston, Mass.
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J. M. Thorburn & Co., 33 Barclay St., N. Y.
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12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.
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I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

Surplus Garden Peas—50 bu. Alaska, \$3.25 per bu.; 40 bu. First and Best, \$2.00 per bu. New crop northern Michigan grown; none better. W. F. Allen, Salisbury, Md.

SHEEP MANURE

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Pulverized Sheep Manure.
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SHEET MOSS

E. A. Beaven, Evergreen, Ala.
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SMALL FRUIT PLANTS

Dewberry plants, Lucretia and Austin, \$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00 per 1000, \$25.00 per 5000; Turner red raspberry plants, \$6.00 per 1000, \$25.00 per 5000. W. F. Allen, Salisbury, Md.

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Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

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Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

Spiraea A. Waterer, 200, 18 to 24 in., \$5.00 per 100. 75 Deutzia Lamouche 6c. each. Cash with order. Frank J. Geyer, 199 Park Ave., Rochester, N. Y.

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E. Hippard, Youngstown, O.

STRAWBERRY PLANTS

Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

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50,000 small horseradish sets, 25c. per 100; \$2.50 per 1000. S. J. McMichael, 142 Larkin St., Findlay, O.

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Now ready to ship, Jersey Wakefield, Winnigstadt, and Market Gardener's Early Cabbage, No. 1 stock, 15c. per 100, \$1.25 per 1000. Tomato plants, Dwarf Champion, Spark's Earliana, Lorillard King of the Earliest, 15c. per 100, \$1.25 per 1000. S. J. McMichael, 142 Larkins St., Findlay, O.

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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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The Advance Co., Richmond, Ind.
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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VENTILATING MACHINERY, New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1133 Broadway, N. Y.

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Vinca minor (myrtle), \$20.00 and \$30.00 per 1,000. E. K. Moorey, Madeira, O.

10,000 vincas 2 1/2 in., fine, \$2.50 per 100; \$20.00 per 1000. R. Cuttings same, \$1.00 per 100; \$7.00 per 1000. Cash, please. Benj. Connell, West Grove, Pa.

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H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.

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Strong divisions, Campbell and Imperial violets, \$5.00 per 1000. Paul Thompson, West Hartford, Conn.

WILD SMILAX

E. A. Beaven, Evergreen, Ala.
Southern Smilax.

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Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 38 40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

All standard frames in stock. Special designs made to order in hurry-up time. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

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The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

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N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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George A. Sutherland Co., 34 Hawley St., Boston.
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Welch Bros., 226 Devonshire St., Boston.
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AMERICAN AND FRENCH GREENHOUSE GLASS.

Standard Plate Glass Co., Boston.
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CINERARIA AND PRIMULA SEED.

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DECORATION DAY FLOWERS AND SUPPLIES.

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DECORATION DAY FLOWERS AND SUPPLIES.

Welch Bros., 226 Devonshire St., Boston.
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FUNKIA.

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SHRUBS: POPLARS: ROSES: CANNAS.

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TARGET BRAND WEED KILLER.

Amer. Horticultural Distributing Co., Martinsburg, W. Va.
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There can be no more useful and appropriate present than a subscription to HORTICULTURE. The more he reads HORTICULTURE the better service he will render you. If you want to give five or more we will be glad to make a special discount, on application.

Other Useful Books.

The Dahlia. By L. K. Peacock. Price, 30 cents.

The American Carnation. C. W. Ward. Price, \$3.50.

Manual of the Trees of North America. C. S. Sargent. Price, \$6.00.

The First County Park System. F. W. Kelsey. Price, \$1.25.

The Horticulturist's Rule-Book. Bailey. Price, 75 cents.

Chrysanthemum Manual. Smith. Price, 40 cents.

The Chrysanthemum. Herrington. Price, 50 cents.

How to Make Money Growing Violets. Saltford. Price, 25 cents

Dwarf Fruit Trees. Waugh. Price, 50 cents.

In the hearing before the appropriations committee at Hartford, Ct., on May 8 relative to the additional sum asked for the Connecticut Agricultural College which includes \$50,000 for a horticultural building and greenhouses, the fact was brought out that 90 per cent. of the graduates of the college become farmers, and that the demand for managers and superintendents is greater than the college can supply.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

HORTICULTURE needs a wide-awake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

WANTED—Single man as assistant rose grower on commercial place. Steady position to good man. Give reference from last place and state wages expected with board. Dean & Co., Little Silver, N. J.

WANTED. A good designer, accustomed to waiting on retail flower store trade, industrious and well-recommended. A good position for the right man, Thornton Bros., Lawrence, Mass.

WANTED—Good active young man, experienced in rose growing under glass. Good salary. Address B. care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—A good, smart, handy man accustomed to general greenhouse work. Apply in person or write to Thomas A. Cox, 73 Olney St., Dorchester, Mass.

WANTED—A section man for Roses. Address L. B. Coddington, Murray Hill, N. J.

SITUATIONS WANTED

POSITION WANTED by experienced landscape gardener, civil engineer and horticulturist of some ten years' experience. Open for engagement with private proprietor or business concern after June 12. References supplied. Address, E. L. Raymond, 9 Felton St., Cambridge, Mass.

We can with pleasure recommend the services of a skilled gardener and orchid grower to any lady or gentleman requiring the services of such a man. Apply Carrillo & Baldwin, Secaucus, N. J.

WANTED—Situation as Head Gardener on private place; capable of taking care of orchids, ferns, palms, roses, etc. Best of references. Address N., care of HORTICULTURE.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

FOR SALE

FOR SALE.

Desirable Greenhouse Plant, directly opposite Spring Forest Cemetery, Binghamton, N. Y. Large and increasing demand for Funeral Designs and Bedding Stuff; care of cemetery plots big item in receipts. A dwelling house, 10,000 feet of glass, land comprising twenty city lots. Paying business and open chance for increase. Sold on account of advance in years. Apply to James B. Tully, 47 Spring Forest Ave., Binghamton, N. Y.

FOR SALE—Greenhouse Pipe

4-in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

FOR SALE—Second hand 4 in. cast iron pipe for greenhouse heating, five-foot lengths. 10 cents per foot, F. O. B. Exeter Machine Works, Exeter, N. H.

PRICES QUOTED IN THESE COLUMNS ARE FOR DEALERS ONLY

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Please Mention Horticulture**

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CUT FLOWER MARKET REPORTS.

(Continued from page 655).

iculture either in cut flowers, seeds, bulbs, trees, or outdoor work. Rather the reverse. More time to attend to things and less excitement.

TWIN CITIES

Business the past week has been very quiet. The trade in general believe this to be entirely due to the bad weather. The big stores seemed to control what little trade there was, and the small trade found it to be a very poor week. Stock is plentiful and were it not for the inclement weather it is very probable there would have been a heavy drop in retail prices owing to the competition of the street merchants. Nothing has been done in planting outside of shrubbery, which has been carried on to quite an extent. A few days the past week it was so cold that even that could not be done as the ground froze hard.

WASHINGTON

It is with a feeling of deep gratitude that we are at length able to report three consecutive days of sunshine for Washington and vicinity. In consequence vegetation has taken a decided jump and all nature seems glad—as well as all people. Two nights of frost during the week just past made all outside growers look pretty blue, but we have reason now to believe that summer is here to stay. Carnations are in abundance as also are sweet peas, but, as yet, the prices have not dropped appreciably. The hardy woodland flowers, such as dogwood, hawthorn and wild cherry, are now almost things of the past, but if the warm days continue pond lilies will be here to take their places. The cherry crop it is thought now will be a total failure, though plums seem to look promising, also apples.

GREENHOUSES BUILDING OR PROJECTED.

New.

Syracuse, N. Y.—T. N. Emerick, one house.

W. Newton, Mass.—G. A. Frost, conservatory.

Baldwinsville, N. Y.—T. N. Emerick, one house.

Stockton Springs, Me.—Mrs. W. H. Follett, one house.

Additions.

So. Framingham, Mass.—J. E. Long. Kansas City, Mo.—N. Jarrett, two houses.

Outremont, Que.—Hall & Robinson, range of houses.

Grass Valley, Cal.—W. E. Johnson, range of houses.

Lewiston, Me.—Ernest Sherman, one house 28 x 125.

Blue Island, Ill.—Heim Bros., one carnation house, 40 x 200.

Seattle, Wash.—Matthieson & Johnson, one house 100 x 200.

Benton Harbor, Mich.—F. L. Tornquist, one house, 20 x 50.

Austin, Minn.—A. N. Kinsman, two rose houses, 29x148, 31x148.

Tacoma, Wash.—Charles Halkier, three houses, each 16 x 100.

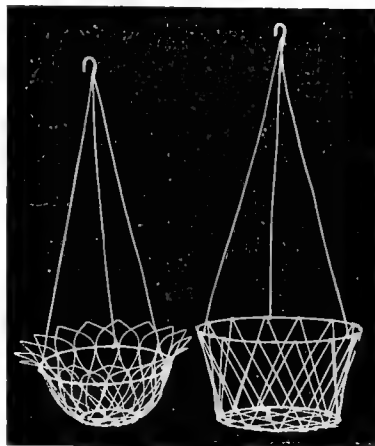
Caledonian Springs.—Canadian Pacific Railway, range of houses.

Niles Center, Ill.—Ed. Blaumeuser,

The Kramer Bros. Fdy. Co. DAYTON, OHIO.



Largest Vase Manufacturers in the U. S.
Write to Department 3 for Catalog and
Prices if Interested.



No. 1.

No. 2.

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40 Broadway, DETROIT, MICH.

two houses, each 18 x 125; Emil Blaumeuser, two houses, each 25 x 125.

Northampton, Mass.—H. W. Field, one rose house, 33 x 242; 33 ft. extension to rose house, 25 ft. extension to carnation house.

?

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List? If Not, Why Not?

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to keep paths, roads, tennis courts and brick walks free from all growth. One gallon makes 50 gallons of treating liquid.

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50 gal. barrel, \$35.00

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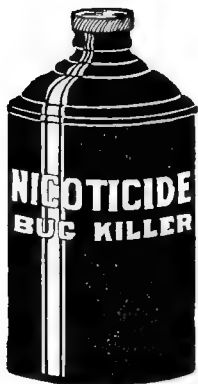
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No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8.
Send draft money-order or registered letter.
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that will kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



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Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
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1500 3 " " "	6.00	HAND MADE	
1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
800 3 1/2 " " "	5.80	48 10 " " "	4.80
500 4 " " "	4.50	24 11 " " "	3.60
320 5 " " "	4.51	24 12 " " "	4.80
144 6 " " "	3.16	12 14 " " "	4.80
		6 16 " " "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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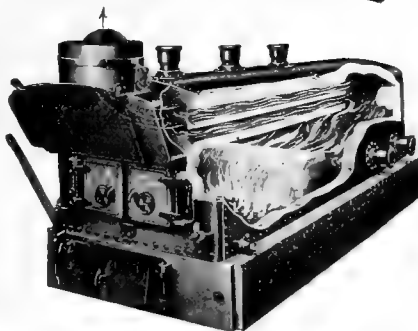
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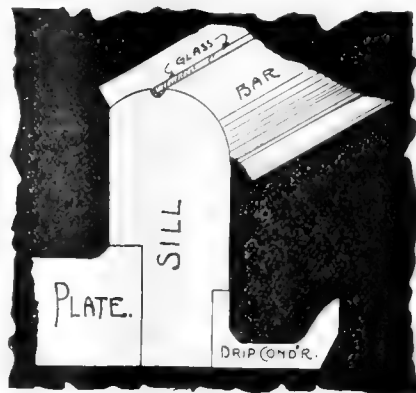
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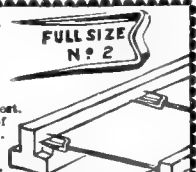
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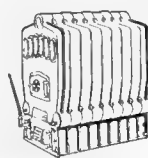
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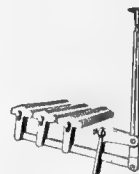
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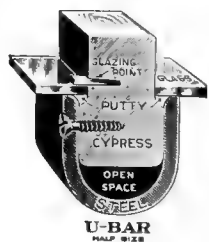
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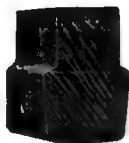
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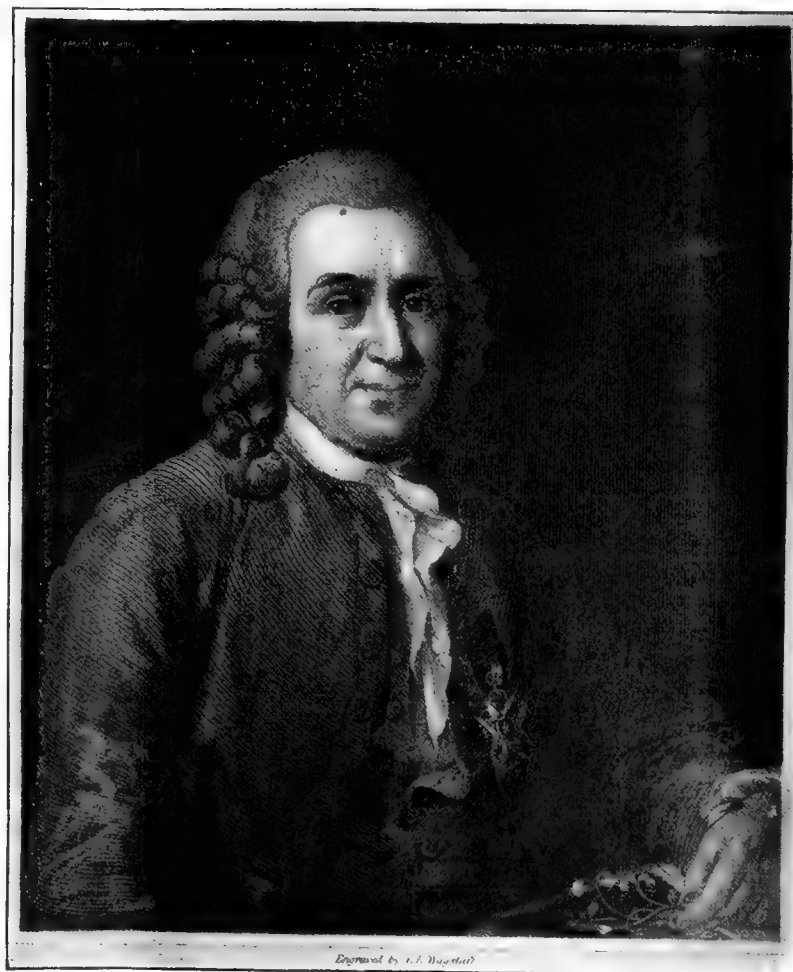
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HORTICULTURE

Vol. V.

MAY 25, 1907

No. 21



Engraved by J. H. Wachtel

CARL VON LINNE

"Botanic Muse" who in this latter age
Led by your airy hand the Swedish sage,
Bade his keen eye your secret haunts ex-
plore
On dewy dell, high wood, and winding
shore.

Say on each leaf how tiny Graces dwell;
How laugh the Pleasures in a blossom's
bell;
How insect loves arise on cobweb wings,
Aim their light shafts, and point their
little stings."

—Erasmus Darwin, 1751

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Paul Transon,	Mme. Leon Pain,	
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All at \$2.25 per 100, \$20.00 per 1000

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3-4 ft. size.....	\$6.00	\$50.00
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STRONG DORMANT PLANTS

American Beauty, Clothilde Soupert, Gloire de Dijon,
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All are 2 yr. old transplants, fine bushy stock.

2,000 Myrtle, nice plants, at \$45.00 per 1000.

8,000 choice Dahlia Roots for sale cheap.

Oak Hill Nurseries, Roslindale, Mass.

Carl von Linne



The twenty-third of May is this year being generally celebrated over the world as the two hundredth anniversary of the birth of a great man,—the Swedish Naturalist Linne or Linnaeus. Greatness is as varied in its manifestations as human interest, thought and action are. It is practically synonymous with high excellence in any line of either. Sometimes it is purely intellectual; sometimes as purely mechanical. It may be as real in one direction as in the other; but its final rank is relative.

Linnaeus was great as an observer, greater in his ability to classify and bring into orderly arrangement numberless disconnected units, and greatest in applying to them differential names instead of leaving them dependent upon differential descriptions whenever they were referred to. He was not the first in his field, but he so systematized it that it was easily cultivable instead of presenting the obstacles of a jungle. Though his system be discarded, his genera and species segregated today, and his own interests in plants replaced in large part by others, his method has furnished a foundation of order on which all plant knowledge must rest if it is to be generally useful.

Wm. Trelease.

Sweden's Great Botanist

Today, the two hundredth anniversary of the birth of Linnaeus is being celebrated not only by the societies of science, the universities, and the colleges of his native land, but by many institutions in foreign countries. Linnaeus was born in the parish of Stenbrohult in the province of Smoland, Sweden. From earliest childhood he showed great love for the productions of Nature and before all for the flowers. In the year 1727 he entered the University of Lund where by his great diligence and the interest which he took in natural studies he won the affection of the distinguished physician and natural philosopher Stobæus. Leaving Lund in the fall of 1728 he set out for Upsala, where, a stranger and unknown, with no resources he struggled against various discouragements and at one time was upon the point of abandoning his studies. At the moment of his greatest need, however, by chance Olaf Celcius, Doctor of Theology and botanist came to his aid, introducing him to his own family and boarding him in his own home. His academic studies now went on pleasantly. At this period Linnaeus' system for the arrangement of plants, his so-called sexual system, was devised. Before he had reached his 25th year the system was elaborated to embrace all known plants and the foundation of his future fame was laid. In a short time his enduring masterpiece, the *Systema Naturæ*, was published. It was this work which afterwards procured for young Linnaeus access to that great physician and natural philosopher, Boerhaave, during his stay in Holland, to

which country he went for his degree of Doctor of Medicine. After dwelling three years in the land of tulips he again returned to Sweden and became a practicing physician in Stockholm. At the death of O. Rudbeck he was called to the Professorship of Medicine and Botany at Upsala. Under his direction studies of natural history got attention as never before. Numbers of young men crowded the lecture halls to listen to his teaching and many among his disciples have their names inscribed in the annals of botany; as Kalm, Thunberg, Osbeck and others.

It is pleasant to see that Linnaeus' merits were fully recognized in his lifetime. He was made a nobleman and adopted the name Carl von Linne and adorned the shield in his coat of arms with a spray of his favorite plant—*Linnaea borealis*.

THE DEBT OF THE PRACTICAL PLANTSMAN

The question has been asked, What do we owe to Linnaeus for the advantages which the professional, practical plantsman enjoys today? The debt of the practical plantsman to Linnaeus is mainly an indirect one, through the influence which scientific botany has had on the practical study and use of plants. Linnaeus systematized botany, and made it easy for a large number of students to study plants on a wide scale. In the impulse which his system gave to taxonomic botany the floras of the whole world were eagerly explored. A vast number of new and interesting forms were discovered, and such of them as were seen to be beautiful or

useful were adopted into cultivation. When botanical societies, museums, and gardens were established, many exotic plants were grown and brought into flower or fruit, and their excellence became known to horticulturists. The old volumes of the Botanical Magazine, the Botanical Register, and other such publications, with their fine old colored plates illustrate how this was, and how scientific botany, under the stimulus which came so largely first of all from Linnæus, brought to the light of public knowledge many most beautiful plants.

Of course it goes almost without saying that every time one uses the botanical name of a plant, he incurs a debt to Linnæus, who devised the method of designating all species by binominal terms. Linnæus saw that in place of the descriptive phrases of irregular length by which plants were known, two words were enough for the name of each plant, one word for the genus, one for the species; as is *Spiræa japonica*, *Ulmus Americana*, *Cattleya labiata*, etc. The whole world follows him in this binominal system of plant-names. More directly practical botany was aided by the travels and the works of the pupils of Linnæus, some of whom are mentioned above, whose names are commemorated in familiar plant-names, as *Kalmia*, *Thunbergia*, etc. But the chief debt to Linnæus of everyone who deals with plants must always be for the great impulse which his clear arrangement of the vegetable kingdom gave to the study of the plant world.

Carl Blomberg

Hydrangea arborescens grandiflora *alba*

Plants of this handsome hydrangea are blooming in the little greenhouse at the Arnold Arboretum, and attract much admiration from all visitors. Mr. Dawson says that these plants were placed in the pit in December and were started in the house in February up to which time they were only dry sticks, this proving that it is unexcelled as an Easter forcing plant with every qualification for great popularity. The flower heads are very large, pure white and entirely lacking the coarseness of *Otaksa* or *Thomas Hogg*. The foliage is light green, smooth, heart-shaped and very effective. Mr. Dawson pronounces it one of the very best introductions, either foreign or American. Prof. C. S. Sargent calls attention to the fact that Asa Grey described this sterile form of *Hydrangea arborescens* as having been found in the mountains of Pennsylvania sixty years ago and it is remarkable that it should have remained in obscurity for so many years. E. G. Hill & Co. have the credit of first bringing it into public notice.

Plants in the Rock Garden

The article in a recent issue of HORTICULTURE on "Alpine flowers in a cold greenhouse" was of great interest to me. When I was at Kew there was no house for alpenes, and during my visits since then I was not fortunate enough to be there to see the house at its best in April and May. It seems to me that the plants and interior of the house would look much better if a small rockery was built in the house. The plants would look much more natural and probably grow much better, too, if grown in a rock. There is a charming rockery out-of-doors at Kew, but the plants do not seem as happy or as thrifty as the alpine plants in the rockery at the Edinburgh Botanic Garden. Probably the Scotch mist which wets an Englishman to the skin agrees well with the mountain jewels or alpine plants.

The past month, April, will be long remembered for its unseasonable weather. Many plants that ought to have blossomed during the month were retarded as safely as if they were kept in cold storage. The principal plants that blossomed during April were crocuses, snowdrops, grape hyacinths, glory of the snow, hepaticas and a few narcissi.

There is probably no part of the garden so interesting in May as the rock garden. The plants have wintered well. The deep coating of snow which covered them mostly all the winter kept them safely and from alternate freezing and thawing. Plants are especially thrifty and promise to give an exceptionally liberal supply of blossoms.

THE ROCK CRESSES

Large masses of the white rock cress (*Arabis albidia*) is most pleasing at this early season. It is an old-fashioned plant but it will be a long time before we are tired of its company. Its white, fragrant flowers are most pleasing when planted in large masses and will do well in almost any soil or situation. Another species that is less known but a gem of rockery plants is *Arabis procurrens*. This plant has a mat of white flowers which stand six or eight inches in height. It is valuable as a foliage plant when destitute of flowers. It makes a thick mat which covers the ground completely with its bright green leaves which are bright and green throughout the whole season.

The purple rock cress that does best with us is *Aubrietia deltoidea*. In elevated positions where water does not lodge about it in winter it will grow well and flower profusely. *Phlox subulata* and its varieties are always at home and happiest in the highest and driest parts of the rock garden and are so showy that they draw attention from a distance. *Euphorbia Myrsinites* although not a showy plant when in bloom is valuable for hanging gracefully over the rocks and its light glaucous-green foliage and stems are quite attractive. It sows itself freely in our garden.

Many of the species of the dog's tooth violets have beautifully marked foliage and would be well worth growing for this attribute alone. At this time they are flowering with the greatest freedom and the European

species *Erythronium dens-canis* and its varieties are especially attractive. Their flowers are of various shades and rise above the foliage about six inches. They are spreading rapidly and will soon cover more space than we can spare them. *Erythronium Americanum* and *E. albidum* grow luxuriantly. They seem to do well either in shade or sunshine. They make an excellent edging for rhododendron beds and love the moist peaty soil.

AN EARLY LATHYRUS

Lathyrus vernus (*Orobis vernus*) is the first of the pea family to blossom. It's surprising that this fine old plant is not more common. It has many good qualities which recommend it as an early-flowering hardy plant. Just as soon as the frost leaves the ground it pushes up its green leaves and very soon the plant is embellished with clusters of purple flowers. When fully grown it is about a foot in height. It is easy to grow and is not fastidious about soil or situation. In full sunshine it seems to be happy, but under the shade of trees it does equally well and its flowers last longer. It seeds freely and can be increased from seed or by division. Skirting the lower edges of some large rocks *Lathyrus palustris* with its pale purple flowers is very pleasing now.

The earliest of the speedwells to blossom is *Veronica gentianoides*. This is a dwarf species only attaining ten to twelve inches in height. It has bright light blue flowers and bright green shining foliage. It is a capital rockery plant and does well where the soil is not too dry.

The rock madwort (*Alyssum saxatile*) loves sunshine and in a partially elevated fully exposed position, it is a mass of shining yellow now. It is one of the best yellow flowers we have at this season. It does not do well with us as a border plant but we have no difficulty with it in the rock garden when grown in positions that are slightly elevated. It is rather hard to transplant, but plants raised from seed and planted in their permanent positions before they are fully grown give the best satisfaction and quickly get established. *Alyssum argenteum* is another species we grow but it is not as showy as the rock madwort. It is perfectly hardy and is pleasing in some positions.

Aster alpinus looks in perfect condition and although not yet in flower is a mass of buds which will speak for themselves later.

A NEW VIOLA

Viola cornuta variety *papilio* is a new kind we raised from seed which came from England last year. This is a good thing and in many ways like the species, but the purple flowers are shaped like a butterfly as the name suggests. *Viola lutea* variety *golden gem* is the finest yellow viola we have grown so far. It is perfectly lovely now. It is also new and the seed was obtained last year from Thompson and Morgan of Ipswich, England. Amongst the new tufted pansies we have raised from seed last year and which are growing finely in the rock garden the following are the best: *Imperial Blue*, *Purple King*, and *Osborne White*. These tufted pansies are profuse blooms and produce quantities of flowers all the summer.

Some of the alpine drabas are lovely and are the smallest plants probably we grow out of doors. In crevices between the rocks we have nursed and cherished *Draba bruniaefolia* for many years and it has rewarded us many times with its show of minute yellow flowers. This is one of the jewels: the whole plant does not measure more than an inch in height. Some scientists tell us that plants have as much of a spread under

ground as they have above ground. It is the reverse with these minute mountain plants. On some of the plants which are not more than an inch in height, the roots travel downwards for about a foot. I have dug Drabas with roots ten and twelve inches long. This is only another example where nature fits plants for their environments. Other species of drabas that are in flower now and all having white blossoms are *Draba contorta*, *Traunsteineri* and *incana*.

POPPIES SHOULD BE RAISED FROM SEED

The Iceland poppy (*Papaver nudicaule*) and its various varieties on elevated spots make a bold show at this time. The plants are not long lived and a batch should be raised from seed each season if the plants do not produce themselves naturally from seed as they often do if they are happy and thrifty and in a situation to their liking. I like the plain old-fashioned nudicaule and its white variety the best, although all the other forms are good for variety's sake. The alpine poppy and its white variety have a better constitution than the Iceland poppy. They are all easily raised from seed and ought to be in every collection of rock garden plants.

Parrya Menziesii is a pretty little cruciferous plant which is new to our garden. It grows six or eight inches high and has racemes of bright purple flowers. I raised a number of plants from seed a year ago and planted them last fall in the rock garden where every one of them lived and they are flowering with the greatest profusion.

A VALUABLE PRIMROSE

Primroses are especially valuable as early spring-flowering plants and the one that draws most attention at this time is a large mass of *Primula denticulata* var. *Cashmeriana*. This is a splendid plant and deserves more prominent popularity than it has at the present time. It is perfectly hardy and when it finds a congenial home it flowers exceedingly free, throwing up just after the frost is out of the ground, flower stems about ten inches in height and almost as thick as my little finger, which are terminated with large umbels of light purple flowers. It will grow on level ground or partly level and is not particular about the texture of the soil. This plant comes true from seed and can be grown easily in this way.

Primula officinalis and *P. Polyantha* and their numerous forms and varieties are all doing well and always have a charm for lovers of early flowering plants.

Fritillaria imperialis is the plant that has made most growth this season out of doors. Its stems are from three to four feet high now and are crowned with umbels of drooping brick-colored flowers. *Fritillaria Meleagris* and its varieties are also curious and interesting. Other species that are in bloom now are *F. tenella* and *ruthenica*.

EDELWEISS

The Edelweiss (*Leontopodium alpinum*) is perfectly hardy here, and we have a colony of it about a yard long by a foot in breadth. Although not in bloom now it is always interesting to lovers of alpine plants. We hear rumors often that the plants will be exterminated by tourists in its native country. There need be no fear of this as long as a few seeds can be procured as there is no plant easier to grow from seed than the Edelweiss.

Robert Cameron

HORTICULTURE

VOL. V

MAY 25, 1907

NO. 21

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292
 WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; To Canada, \$1.50

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;
 six months (26 times) 20 per cent.; one year (52 times) 30 per cent.
 Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass.
 under the Act of Congress of March 3, 1879.

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Organization again wins

The success of the Illinois State Florists' Association in securing from the legislature an appropriation for floricultural investigations at the State Experiment Station is another demonstration of the effectiveness of organized effort. More or less directly every florist in the State benefits from this exploit. Let us hope for the day to come when it will be a stigma and disgrace to any florist or gardener to abstain from affiliation with one or more of the local or national associations devoted to the interests of his calling.

Memorial Day

Another year has gone its round and once more we find ourselves on the threshold of the great spring holiday, the representative floral festival of our day. No event in the course of the year has a deeper significance and none touches more closely the heart and sentiment of

the people than Memorial Day with its impressive observance. Originally consecrated to the decoration of the graves of departed heroes of the battlefield, now universally appropriated by the people as a day of loving and tender tribute to the memory of friend and kin who have gone beyond, the occasion is one in which the florist must for all time take a leading part. Whatever the changes may be in the observance of other annually recurring holidays, here is one which will always continue to be distinctly floral in its character. Rich and poor alike will turn to the florist on Memorial Day and there will be no flower so rare and costly and none so cheap and common but that it will find an appreciative purchaser.

An opening that should not be dispised

In all the work that is being undertaken for civic betterment and public enlightenment in the art of home adornment the local florist who does not actively participate makes a serious mistake. One can hardly blame a self-respecting florist for holding aloof from some of the hysterical "Back-yard Beautiful" missions, managed by persons lacking all qualification for such work but, as a rule, the florist will find people more than willing to be advised by him and, in taking a prominent part in the public education by working to stimulate a love for flowers, a knowledge of their culture and a general interest in garden work, he not only raises himself in the esteem and respect of his townsmen but also lays the foundation for the substantial advancement of his material welfare through the larger demand for his products which is certain to follow such a course. It is to be regretted that there are many who are blind to the splendid opening thus offered and who stupidly resist every inducement put forth to pry them out of the old, old rut.

The hardy chrysanthemums

Writers on garden topics in the daily press are showing a disposition to encourage a more general interest in the hardy pompon chrysanthemum, and the trade growers of these plants assert that the increased demand indicates that the amateur is coming to a realization of the many unique good qualities possessed by these sturdy old-fashioned favorites. Since the introduction of the huge-flowered Japanese varieties the hardy chrysanthemums have been neglected by trade and amateur until it may now be truthfully said that many of the present generation are unaware that they exist. We believe that every local florist would find his patrons eager to take up the interest in and cultivation of this class of chrysanthemums if its ease of culture, its variety of color and its fine effect in the late fall garden were brought to their attention. In comparatively few of the retail greenhouses can it be found, however, although there is as good profit in its propagation and sale as in any of the many other soft-wooded plants that they consider indispensable in their assortment for spring sales. A few of the large wholesale dealers throughout the country have been getting together fine collections comprising a wide range of color and the local florist who invests in same will be making no mistake. Unfortunately the pompon chrysanthemums are always seen at a great disadvantage in most flower shows. Crowded in untidy handfulls into small vases or bottles and elbowed by the huge blooms of the greenhouse product they appear of small account. We should like to see a really artistic display of these small-flowered varieties made at each exhibition next fall, shown on long sprays arranged for decorative effect, and in a section distinctly by themselves. This done, the public will quickly take notice.

AFTER ADJOURNMENT.

"A flower famine exists here, it being impossible to get flowers for use at funerals."—*Elwood Ind., Notes in Indiana News.*

Our Chicago wholesale friends should get in touch with Elwood at once. It's a cinch.

Are you a member of the S. A. F., or the local florists' or gardeners' club, or the local horticultural society? If not connected with one or all of these, why have you neglected it? If you "cannot afford it" you are to be pitied; if you "don't care about it" you ought to be ashamed to acknowledge it.

"A drop of alcohol or camphor put on each mealy bug will soon kill it."

Horticulturists generally will be exceedingly grateful to the Philadelphia Press which in its issue of May 19 imparts this welcome information. If, by accident, the drop of alcohol should get in the mealy bug instead of on it, wonder what would happen.

The notorious brown-tail moth has selected a shining mark for the first dose of brown-tail itch, for this season, no less a personage than the moth's arch-enemy Superintendent Pettigrew of the Boston Park Department. Mr. Pettigrew is actively preparing dire vengeance in the shape of arsenic spray and the fight will soon be on in earnest. In the meantime the superintendent's neck is as rough as a corduroy road and the moth gets the credit for the first blow.

The gypsy moths have emerged from the eggs, and the tiny caterpillars are already busy at work on the green material nearest to the spot of their birth. Despite the most careful inspection and destruction of egg masses throughout the winter season, there appear to have been plenty that escaped detection. Spraying is the only recourse now, and as soon as the foliage is of a sufficient size to hold the poison it should be applied promptly and thoroughly. When the caterpillars get large, poison is only a tonic for them.

Our readers are reminded of the great privilege at their disposal, of the use of the Massachusetts Horticultural Society's library on Sunday afternoons. Gardeners have made some use of the privilege but have not taken advantage of it as a rendezvous thus far to the extent that they should. Visitors in Boston connected with florist or gardening profession if in the city on Sunday should call at the library, Horticultural Hall, cor. Massachusetts and Huntington avenues, and they will find much to interest and entertain them.

The brown, brown woods of March
Are the green, green woods of May;
And they lift their arms with a freer swing
And shake out their pennons gay.
And the brown, dead world of March,
Is the living world of today;
Life throbs and flushes and flashes out
In the color and fragrance of May

The grass comes, the flower laughs, where
Lately lay the snow,
O'er the breezy hill top hoarsely calls the
crow.

By the flowing river the alder catkins swing
And the sweet song sparrow cries, "Spring,
It is Spring."

RHODODENDRON LADY ALICE FITZWILLIAM.



The superb specimen greenhouse rhododendron herewith illustrated was exhibited on April 20th, at Horticultural Hall, Boston, by Wm. C. Rust, gardener to Dr. C. G. Weld. It is one of the handsomest of the Indian

rhododendrons. The flowers are of immense size, waxy white with pink-tinted stamens, and very fragrant. The specimen here shown bore several hundred flowers and a silver medal was awarded for it by the Massachusetts Horticultural Society.

AN APPRECIATED APPRECIATION.

Editor of HORTICULTURE:

Your editorial in the last issue is just what we all need to keep alive this great question of protection for our birds, our forests and in fact all the life of the country. It is largely due to the destruction of our native song and insectivorous birds that this rapid increase of the gypsy and brown tail moth was and is made possible; you will probably notice that these pests are most numerous about places where there has been a great deal of contract and Italian labor used; and if you will follow the subject further you will find that these laborers are in the habit of trapping the birds and using them for food. I know of cases where Italian camps were raided and large numbers of our insect eating birds were found.

I believe that the average man does not understand what all this destruction of the birds and forests means and while your paper is published in the interests of horticulture a word to our readers on some such vital topic once in a while will be greatly appreciated. Your paper is doing a good work and I for one like to see you take up a subject that is of vital importance not only to the horticulturist but to all our people.

Thanking you I remain,

Very truly,

WILFRID WHEELER.

Concord, Mass.

PERSONAL.

Miss Stella Tonner and Mr. Leslie Ellithorpe were married at Chicago on May 11.

Robert Newcomb, formerly of Chicago, has taken a position in the new floral store of Clarke Bros., at Oakland, Cal.

R. B. Graves, the veteran florist of Northampton, Mass., is actively attending to his work as usual this spring although 87 years of age.

S. S. Skidelsky was a visitor in Boston last week. This week we have Geo. F. Struck representing Lager & Hurrell, Summit, N. J., and Thos. Knight from Julius Roehrs Co., Ruthersford, N. J.

We have heard from Mr. Samuel Henshaw who is dangerously ill at the S. R. Smith Infirmary, New Brighton, Staten Island, that he is holding his own well and is hopeful of speedy recovery. Pluck is the very best of medicine and Mr. Henshaw has plenty of it.

HORTICULTURE Pub. Co.:

Your magazine is all right. Please notify when subscription needs to be renewed.

WALTER A. TEMPLE.

Westboro, Mass., May 21, 1907.

You'll find something worth reading on every page of this paper.

NEWS OF THE CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The meeting of the Gardeners' and Florists' Club on Tuesday evening, May 21, was the equal of any of its predecessors in point of numbers and interest, there being close to 150 members present. The exhibition table carried several contributions from members, among which were carnation Alma Ward from Peter Fisher, "Daphne cneorum" from President Westwood, *Gladiolus nanus* Peach Blossom from R. & J. Farquhar & Co., *Trollius Japonica* Excelsior from Blue Hill Nurseries, rose White Killarney from Alex. Montgomery, *Palmetto* asparagus from Wilfrid Wheeler, and a thistle with pretty green and white mottled leaves from George M. Anderson. A report of merit was given for the *trollius*, honorable mention for the *gladiolus* and White Killarney, and a vote of thanks was prescribed for the remainder. Mr. Farquhar said that many stocks of *trollius* are badly mixed as to color, and that it is difficult to procure the pure strain of *Excelsior*. The flowers shown by Blue Hill Nurseries were of very deep rich color. Peach Blossom is one of the best of the early forcing type of *gladiolus*. Peter Fisher stated that he had been much pleased with Alma Ward this season and believed that by selection of the stock to be planted he could even improve on its record the coming year.

W. H. Elliott was called upon to tell his experience in "carrying over" Richmond roses for a second year. He stated that results might differ according to conditions—such as benches or solid beds—and that this should be taken into consideration in construing what he might say. He had carried over one bench until the present time. The plants had been kept flowering until July, when they were dried off, and cut back to eight or ten inches about September 1 and started into growth again. Results were directly the reverse of what he expected, for he got no stems over one foot long at Christmas when he expected the best crop of large flowers would be produced. Then in the spring, when he looked for small flowers, he got a fine crop of extra large flowers. Next year he would not cut back so severely.

W. N. Craig read a very interesting paper on the planting and massing of bulbous plants, F. J. Rea followed with a valuable talk on the planting of hardy perennials, and T. H. Westwood read an instructive essay on the use of tender bedding plants. We hope to present these papers in an early issue of HORTICULTURE.

A vote of thanks was passed for the donors of flowers for the tables on ladies' night. It was voted that the club hold the usual picnic the coming summer.

COLUMBUS FLORISTS' CLUB.

The first regular meeting for May was held last Tuesday evening, and not for a long time have so many mem-

bers attended; a goodly number of ladies were also present; in fact, had it been a stated ladies' night our club could hardly have been more favored. President Sherman F. Stephens was in the chair, and all the other officers were with us. The plants and flowers exhibited at this meeting were very much enjoyed; and Messrs. Jacob Reichert, Albert Hills, William F. Metzmaier, Charles Fuehler, and John Brush were made committee on awards. Besides a point award of 15 points, Mrs. John Williams was given honorable mention for Tarrytown fern; I. D. Siebert for *Pandanus utilis* received 15 points; and 20 points went to John Williams for a pot-grown Bridesmaid rose in bloom. The committee were especially pleased with this last exhibit. President Stephens opened a very interesting discussion, on the home and school gardening problem; in which Messrs. Faxon, Batelle, and others joined. Mr. Stephens told of the good work one of our largest schools is doing; in fact, the boys there are so much interested in the garden, which is a large one, that they work after school hours until dark, planting and arranging it. M. B. Faxon also reported, that in connection with the Columbus Federation of Women's Clubs, more than three thousand pupils had already been supplied with vegetable and flower seeds. James McKellar for the field-day committee reported, that even thus early a great deal of interest was being manifested in the forthcoming picnic; and that there would without doubt be two cars needed to carry all to Buckeye Lake. The date for the outing has not yet been fixed, but will most probably be in July; as last year, there will be sports of all kinds, with suitable prizes. As our next meeting would come before Memorial Day, it was postponed to Monday evening, June 3rd, when the club has been invited to meet at the greenhouses of the Fifth Avenue Floral Company. During the evening the ladies present both sang, and furnished music on the piano.

NORTH SHORE HORTICULTURAL SOCIETY.

This society held its regular meeting on May 17, President McGregor in the chair. W. E. Allen, gardener to Mrs. Scott Fitz, showed a vase of exceptionally good Enchantress carnations and was awarded a certificate for superior culture. James Salter showed six pots of Miss Lingard phlox, a vase of Phlox Drummondii and two vases of White Column stocks, receiving a certificate of merit for the same.

B. Hammond Tracy of Cedar Acres, Wenham, gave an interesting lecture on *Gladioli*. He described the characteristics of the various strains; the different methods of propagation, cultivation, and soils most suitable for successful *gladiolus* growing. The cup offered by Julius Huerlin of the Blue Hill Nurseries for the best collection of herbaceous perennials will be competed for at the June show, and not at the August show as printed in the schedule of this society.

WILLIAM TILL.

MASSACHUSETTS HORTICULTURAL SOCIETY.

Though not a regular exhibition day at Horticultural Hall, Saturday, May 18, there was brought in a noteworthy display of spring flowering plants. Chief among the exhibits was a magnificent collection of eighty-one named varieties of tulips, single and double, from the establishment of R. & J. Farquhar & Co. Hardly less interesting were the displays of bulbous plants, pelargoniums, carnations, and orchids from William Whitman of Brookline (Martin Sullivan, gardener), and of eighty varieties of hardy flowering plants from the Harvard Botanic Garden by Robert Cameron, superintendent. Julius Huerlin of the Blue Hill Nurseries also brought in a large collection of fifty species and varieties of herbaceous plants, and Mrs. E. M. Gill of Medford exhibited a choice assortment of carnations, sweet peas, stocks, and tulips.

The exhibition was of so much interest that the committee decided to keep it open the following Sunday.

The next exhibition will be the Annual Rhododendron Show on Saturday, June 8. Much interest is already manifest in the circular announcing the additional special prizes offered for the Chrysanthemum Show in November. Copies of this list can be obtained on application to the Secretary at Horticultural Hall, Boston.

WM. P. RICH, Secretary.

Boston, May 18, 1907.

NEWPORT HORTICULTURAL SOCIETY.

A meeting of the Newport Horticultural Society was held in the Society's hall on May 14. The executive committee reported having approved of the action of the president in the matter of the appointment of Alexander MacLellan, John T. Allen and Daniel Coughlan judges for the Society's June exhibition. The long drawn out work of the committee appointed at the annual meeting in December to secure contributions towards the proposed memorial to the late congressman Adams was completed by the announcement of Col. McMahon that the collection of contributions had ceased and that the amount on hand together with a contribution from the Society would forthwith be sent to Professor Wheeler at Kingston. The Society has had a committee at work for some time in a preliminary movement for securing special premiums for the coming exhibition; this committee reported progress.

Several members present at the meeting spoke in complimentary terms of the diligent work of the men who visited Newport recently in the interest of the movement for the prevention and destruction of the gypsy moth. The president has asked Mr. Herbert W. Lull, superintendent of schools, to assist in the judging of school gardens, and he has willingly consented to act in that capacity.

D. M.

DECORATION DAY FLOWERS

An immense supply of lilies, carnations, roses, lilacs, stocks, spiraea, etc., especially growing for this purpose. Also, baskets, wire frames, inscriptions, immortelles, wild ferns and other green material. All at Lowest Wholesale Prices.

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NEW LONDON COUNTY HORTICULTURAL SOCIETY.

At the meeting of this society held on May 13 the final steps in incorporation were taken. A board of ten directors takes the place of the executive committee. Officers were elected as follows: President, Thomas W. Head; vice-pres., Rev. Nelson Poe Carey; sec., A. A. Hunt; treas., R. R. Willcox; librarian, John Archer. President Head then gave an interesting talk upon Herbaceous Perennials.

CLUB AND SOCIETY NOTES.

The Tri-City Florists' Club will hold its annual picnic on July 11 at Black Hawk's Watch Tower. H. Bryant, H. Goethje and J. Staak are the committee in charge.

August Poehlmann, Leonard Kill and Philip Schupp have been appointed by the Chicago Florists' Club to arrange for the meeting and exhibition of the American Rose Society at Chicago next March.

The June meeting of the State Florists' Association of Indiana will be held at the Smith & Young greenhouses, Stratford. The annual picnic of the Association will be held at Willowmere.

The date for the great flower show to be held at Convention Hall, Buffalo, under the auspices of the Horticultural Society of Buffalo will be Nov. 10 to 17, 1907. The premium list provides for \$1700 in cash prizes.

The International Conference on

Plant Hardiness and Acclimatization to be held by the Horticultural Society of New York will take place Sept. 30th and Oct. 1st and 2d in the rooms of the American Institute and the Museum Building of the New York Botanical Garden. The second day, October 1st, will be devoted to some form of pleasure, possibly an excursion to some place of interest in the neighborhood. A preliminary program will soon be issued.

The next Provincial Horticultural Exhibition will be held on November 12 to 16, at Toronto, Ont. It is probable that the exhibits will include spraying machinery and devices used in the handling of fruits and flowers. Officers have been elected as follows: Pres., R. J. Score, Toronto; vice-pres., W. H. Bunting, H. R. Frankland; secy., H. B. Cowan; treas., J. H. Dunlop. The government grant to the exhibition will be \$2000, instead of \$1200 as last year.

OBITUARY.

E. A. Bronson, formerly in the nursery business at Geneva, N. Y., died on May 4, aged 81 years.

Charles McLaughlin, for many years engaged in the florist business at Haverhill, Mass., died suddenly on May 3.

George H. Green died at his home in Everett, Mass., on May 15. He was a man of good personal character and universally liked. He leaves a widow.

MASSACHUSETTS AGRICULTURAL COLLEGE.

Summer School of Agriculture.

The talk about teaching agriculture in the schools has been revived in many quarters by the announcement that the Massachusetts Agricultural College will this year hold a special school of instruction for teachers in order to show them how such subjects as gardening, botany and insect life may be used to good advantage in common school work. This summer school opens in Amherst, July 8, 1907, and will continue four weeks. A very strong corps of teachers has been engaged and preparations have been made on a large scale for thorough work. In view of the fact that teachers are generally paid sinfully low salaries the charges for this school have been made very low. It will be an excellent opportunity for ambitious teachers, and it is gratifying to learn that a considerable number have already registered.

THE MOTH FIGHT.

During the season just ended there have been employed by Supt. Kirkland in the campaign against the gypsy moth in Massachusetts about 1700 men. When it is considered that each city and town has also had its local gang at work and many thousands of private parties have attended to the clearing of their own property, the magnitude of the work in this moth fighting becomes apparent.

THE IRIS.

(Read Before the Massachusetts Horticultural Society by J. Woodward Manning.)

(Continued from page 621)

The Dwarf German Irises.

We now arrive at a point where it is impossible to make a distinct horticultural line between classes based on botanical classification, but by dividing the remaining classes and groups into those with and without surface rhizomes it is possible to make a form of subdivision.

The surface rhizomed forms are more popularly known as German Irises, though the true *Iris Germanica* is but one of many species. The dwarf forms are greatly neglected, being but seldom seen in American gardens, yet possessing great merit in their range of bloom and the earliness of flowering period. *Iris pumilla* is better known than the other species, and growing about nine inches high bears in April showy flowers of deep purple in profusion. As an edging plant it has much merit, and there are various selected varieties ranging from pearly white, through clear blues to the deeper colored typical form. *Iris pumilla* is certainly worthy of far greater use than has been the case in the past. *I. verna*, another dwarf species from the Carolinas, is equally dwarf, quite prolific in bloom with purple shades and blooms about the same time. This does not show the improvement and fixed forms, however, that is true with the last species. The gem among dwarf Irises, however, is the crested *Iris cristata*, only growing about six inches high, with light green foliage. It forms a carpet of verdure and bears freely of light blue flowers beautifully blotched with golden yellow. I know no form of dwarf Iris with as great adaptability of uses as this, either for naturalizing or for varied garden usage.

Commonly confounded with *Iris pumilla* is a form with flowers borne singly on the stalk, somewhat broader leaves. This is *Iris Chamaeiris*, or its variety *Olbienensis* or *Italica*. The type bears yellow flowers with the falls veined with purple.

Another small and showy dwarf species known as *Iris flavissima* or *Bloudovii*, a native of Siberia, bears showy pure yellow flowers. While there are a number of other dwarf species, they have no particular horticultural merit over these.

New Races and Crossings.

Intermediate between these dwarf Iris and the taller growing German Iris has appeared a new race within a few years under the name of Alpine Iris, these being produced by Mr. W. J. Caparne of Rohais, Guernsey. These are the result of crossing many of the dwarf species with taller growing kinds; the progeny vary in stature and are claimed to give flowers over a period of six to nine months. Probably, however, this refers to a collection of hybrids rather than any single variety. Undoubtedly they have much of interest, and trial will eventually prove such merit and distinction as they may possess.

For perfect hardihood, freedom of bloom and range of color we can with the dwarf and taller growing German Irises feel quite independent of the more difficult forms, however. The German Iris, as popularly known, va-

ries in growth in the varied forms from fifteen to forty inches. The earlier varieties commence blooming in early May, and by a careful selection of kinds it is possible to keep up a succession of flowers until late June.

Many species are responsible for the beauty of the class, and their crossing and selection have confused their origin. *Iris variegata* shows its influence in the prevailing yellow color of the standards of the following varieties with the rather remarkable exception of the *Innocenza*, a very fine form, pure white throughout. *Beaconsfield*, standards yellow, falls crimson, edged with primrose; *Gracchus*, standards yellow, falls crimson reticulated with white; *Maori King*, standards yellow, falls rich velvety crimson margined with gold; *Sans Souci*, standards yellow, falls yellow, reticulated with crimson brown; and *Regina*, standards yellow, falls white, conspicuously veined lilac and edged with primrose yellow.

Iris sambucina crossed with *I. pallida* has given us the very beautiful variety *Madam Chereau*, while the cross between variegata and *sambucina* produces *Iris neglecta* by selection from which we have *Clarissima* with lavender standards and falls reticulated with crimson purple on a white ground. *Cythere*, standards lavender blue, falls clear blue. *Florence Barr*, with both falls and standards bluish, with rosy lilac tinge, and *Mons de Sible*, with lilac standards and deep crimson purple falls.

Other Beautiful Forms.

Some beautiful forms are embraced under the doubtful species *hybrida*, all with white standards, of which *Duc de Nemours*, with purple edged white falls, *George Thorbeck*, falls rich violet purple veined with white at base, *Mrs. George Darwin*, falls white, the upper part veined with gold and violet, are among the best.

The species *Iris Germanica* is undoubtedly more common than any other type, particularly in the older gardens. In this purple is the predominating color, of which *Purple King* and *Black Prince* are the best representatives.

Iris Florentina, the orris root of commerce, is one of the most popular, and very deservedly so, for over a hundred years it has occupied a conspicuous position in every large New England garden, and during the period has lost none of its popularity. Free blooming, with flowers of pearly whiteness, it annually leads the way to the charms of the early summer garden flowers. There are three forms, the common type just described, the variety *Albicans*, of a purer white, and *Princess of Wales*, even more floriferous, with slightly longer flowers and the most deliciously fragrant of any German Iris.

The crowning beauty of all German Irises is traceable to the blood of *Iris pallida*, the broadest leaved of all, with its sword-like foliage often attaining a height of two and one-half feet and an inch and a half across the blade. The flowers are borne on long stems bearing these flowers well above the foliage, altogether producing a most charming effect. The variety *Dalmatica*, or sometimes known as *Princess Beatrice* and occasionally in this country as *Madam Almyra*, is the finest, with immense flowers of a rich laven-

der blue and with a charming though subtle fragrance. *Delicata* is of weaker growth with falls lavender, shading to white and French gray standards. Hybridizing has not improved this species, as seen in the variety *Queen of May*, which, while beautiful, with its soft, rosy lilac, almost pink flowers, is a comparatively weak grower, though floriferous. The beautiful cross of the species with *Iris sambucina* shown in the variety *Madam Chereau* is an exception, however, and this is a most delightful flower, with its pure white petals richly feathered with lilac.

The varieties of German Iris mentioned are but a fraction of those that can be purchased from horticultural sources; they represent, however, the best, and among them are varieties far advanced in horticultural merit over many of the more common varieties seen. Of clear yellow German Irises we have two species, *flavescens* and *aurea*; both are good, the former attaining a height of three feet, with lemon yellow flowers, and the latter of dwarfer growth, with rich golden yellow flowers.

Cultivation of the Surface Rhizomed Forms.

All of these Irises with surface rhizomes are of the easiest cultivation, thriving in ordinary garden soils, requiring subdivision and replanting in re-enriched soils as their clumps become large or the soil becomes exhausted. This replanting should be done as soon as the foliage shows signs of ripening and must not be delayed so long that they may not become thoroughly re-established in the soil before winter. In planting it is better not to sink the rhizomes over an inch below the surface unless the situation is naturally a very dry one. As the plants become established, the rhizome soon assumes its proper elevation. Until of late few diseases troubled this class. Unfortunately, however, a seemingly microbic rot is found to affect the roots so that the foliage becomes detached from the rhizome. The disease is little understood and no remedy has been proved effective, though it is quite possible that over richness of soil may serve to foster the disease.

The *Jacob's Sword* (*Iris Pseud-accurus*) occupies an intermediate position, never being classed as a German iris. It is a beautiful plant to associate along water courses, and yet will thrive admirably in ordinary garden soils; with ample dark-green foliage it makes a vigorous and healthy clump and bears abundantly of rich golden yellow flowers with a conspicuous orange zone on the base of the falls. Two types are common, one with narrower petals than the other. The *Gladwin*, or *Roast-Beef plant* (*Iris foetidissima*), while pale blue in its typical form, in its variety *citrina* is of a clear yellow, but the main interest in this centres in the ornamental effect of the bursting seedpods within which the fleshy bright orange-colored seed show to advantage.

Irises with Tufted Roots.

Those Irises with so-called tufted roots are represented familiarly by the Siberian and Japanese classes. The Siberian has a number of distinct forms of which the type forms a tall leafy plant four to five feet high with

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many flowering stalks bearing from three to five flowers to a stem, and with dark blue coloring marked with white pencilings. The two most useful forms, however, are the pure white variety, which grows about two feet high, bearing purest white flowers in small clusters, an admirable plant for any flower border, and the variety *Orientalis*, with broad, short foliage, growing to a height of eighteen inches, and bearing with wonderful profusion flowers of the richest blue, with faint white throat markings. There is no better true blue in the iris family than this. It too is one of the few irises which will bloom a second time, though sparingly; it is true, by cutting down after the flowering period. This can hardly be recommended, however. No iris reproduces itself any faster than this. It quickly forms broad colonies and necessarily requires frequent division and transplanting.

Japanese Irises.

Japanese irises comprise perhaps the par excellence of the family; they are much misunderstood and require more judgment in their cultivation than do German irises. If planted in situations where water will not collect about the crowns in winter they are perfectly hardy. To flood them at the flowering period is an advantage, not a necessity. This need is nearly as fully met by thorough mulching to retain all possible soil moisture during the flowering period, and with artificial watering is far safer than to plant in a moist situation. It is a false impression that the Japanese plant them where they are subject to excesses of moisture in winter. During this period the Japanese iris fields are drained. All Japanese irises are seemingly improved and selected varieties, rather than hybrids. Their range of color is a very ample one, but has decided limitations. Aside from the variety of self colors and their combinations in flaking and veining, together with the single and semi-double forms, nothing can be expected. A dozen distinct sorts represent the class far better than a large collection of varieties whose distinction is more dependent

on their labels than on any visual evidence of variety. Probably no class of plants have been more cruelly foisted on the public as new than these, by means of fanciful names in which Japanese terms have been used as indicative of new sorts.

It is highly improbable that any distinctive improvement of the class has resulted in comparison with the first sets of varieties shown in our halls twenty years ago. The following list is probably no better than others that could be named, but possesses distinction in the sorts quoted: Arthur Silbard, double, white, shaded with violet; Blue Jay, single, clear blue, spotted with white; Calypso, double, lilac, richly veined with purple; Dagmar Georgeson, rich royal purple, single; Goliath, double, white, marked with violet; Emperor of Japan, double, velvety maroon; Gold Bound, double, white, margined with gold; Painted Lady, single, white, veined with claret.

The wonderful size of the flowers of the Japanese Iris, their late period of bloom carrying on the flower effect to early August, renders the class indispensable to every flower garden. Their massing in groups of a single variety, rather than in promiscuous clashing of colors is, however, essential for the most artistic effects.

WHOLESOME CHESTNUTS.

Dahlia tubers should now be planted out in the open ground and when the work is underway it is better to do it right and be reasonably sure of good results than to do it imperfectly with the certainty of poor returns. Dahlias like plenty of room, three feet between the rows and plants. The soil should have been thoroughly dug and broken up and enriched with manure before digging the holes for the tubers. A grower of dahlias will be well rewarded if he keeps the soil thoroughly cultivated right through the season. Plants from green cuttings may be put in the soil out-doors just as soon as they are sufficiently hardened to stand it.

The bedding of plants of various kinds will soon be under way. There is very often too much haste asso-

ciated with this important work. Some are in a hurry to get the plants out of the way and in the ground with the result that sometimes many plants are a long time in amounting to anything. Others again while actually engaged in the operation are in such haste that many plants are planted imperfectly. It pays to wait and take time in these cases.

Notwithstanding that orders may so far be few for bedding plants, indications point to a scarcity of good stock, and before the planting season is nearly over it will without doubt be felt generally.

Poor plants are not desirable at any time but when unfortunately a number is on hand they can be sold at lower prices than that asked for good plants. They should be disposed of in that way, but they should never be mixed in with choice plants and shipped to a customer who pays for good stock.

The rush in quest of the dollar within reach should not detract attention at the present time from staple articles which if given the care they deserve will amply repay for the trouble later on. I refer chiefly to cyclamens and poinsettias. I have noticed very frequently that these suffered considerably from neglect at this time of the year and that just for the reason noted above. Poinsettias should now be awakened and refreshed still further at the roots by cutting back reasonably, and repotted in order to encourage the making of good material for cuttings. They require a gentle heat and water at the root and applications to the foliage by syringing frequently.

Cyclamens, when well grown, are always good sellers, but small or otherwise poor or indifferent stock are hard to get rid of at any price. Then for that reason it is surely evident that it is folly to have them take up valuable room if every effort is not made to grow to perfection.

The first excursion of the Department of Botany of the Brooklyn Institute was held last Saturday at the greenhouses of C. W. Ward, Queens, N. Y. The visitors were received with characteristic hospitality.

SEED TRADE

Contrary to early reports, it transpired that comparatively little planting has been done in the line of general crops east of the Rockies. It is only within the past ten days that peas have been planted by the packers on an extended scale. As early as April farmers in Western New York, and particularly in the vicinity of Buffalo, planted peas. The hardy varieties like Alaskas and First and Best have managed to poke their noses through the grounds, but Telephones, Gradus and kindred sorts are still in a state of "innocuous desuetude" and likely to remain so indefinitely. As the percentage of hardy early peas planted is very small at any time, the failure of the large-podded wrinkled varieties is very serious, as seed of these varieties is practically exhausted, and not procurable in quantities at any price.

The attention of the writer was called to a sowing of Alaskas and Admirals made on the same day and in the same field, showing that while the Alaskas had germinated well, making a good stand, the Admirals had come up very sparingly, and the seed of the latter was pronounced faulty in vitality. The same fault was found by those who had planted the Telephones, Gradus, Duke of Albany and Thomas Laxton. Had the seed been planted in a snow bank the same criticism would have been heard, and coming from farmers who have been growing peas for years, shows the complaints to be essentially dishonest.

Though it is so early that any opinion is nothing but a guess, yet the feeling is general that we are booked for another short pea crop, and this is especially the view of the canners. No opinion is expressed by the writer, as guesses are of no particular value. As soon as there are developments on which to base an opinion, the readers of HORTICULTURE will get it.

It is time that sugar corn was planted, but neither the soil nor the weather offer any encouragement, and under the most favorable conditions it will be ten days before it will be safe to plant. The same may be said of cucumbers, melons and other vine seeds.

From floods to drought is a far cry, yet California has suffered from both this year. As expressed by a prominent California seed grower in a recent letter, "not a drop has fallen since it quit coming down in floods. We have plowed up the lands ruined by the rain, and just now need a little moisture to work down the roughness for planting, otherwise it must stand over until next year. One piece of our best land is covered with wild mustard twelve feet high, and so thick teams can't get through it."

Another grower complains of the scarcity of farm labor. He says: "The agitation started by the labor unions has resulted in stopping the Japanese from coming over, and we are up against it. The union man

will only work in the cities where he can get from \$3.00 to \$10.00 per day according to the character and quality of his work, and will work only eight hours. Such pay and hours are of course impossible for us, but even if we could and would grant them, these fellows would not work on the ranches. Between the scarcity of labor and the continuous rains up to the middle of March, it has been impossible to keep the weeds down, and they are three feet high. Mildew has started on the onions left from the floods, and what the end will be no one knows."

A pertinent question for every seedsman now is: "What shall the harvest be?" One result of the floods and the succeeding drought, has been an enormous reduction in the acreage of sugar beets. The sugar trust will please take notice. As "captains of industry," now is your chance for an advance of twenty-five per cent. in the price of sugar. It is to be hoped that the "pernicious" activity of the President will not interfere with this "legitimate" advance.

Rates assured by the Hotel Astor, selected as headquarters for the ensuing Seedsmen's Convention in New York City, are as follows: Single rate without bath, \$2.00 and up per day; with bath, \$3.00 and \$4.00. For two persons without bath, \$4.00 per day; with bath from \$5.00 to \$7.00, according to location and size of rooms.

Local retail trade in seeds continues slow everywhere, but indications are that it will last into June, and may finally prove less disappointing than seemed probable a few weeks ago. The early promise of a bumper year cannot possibly be realized, however.

Not much cheer comes from California, the most recent advices indicating a heavy shortage in carrot seed, lettuce, parsnip and other biennials, while no material change can be noted in respect to onion seed.

Henry Field, Shenandoah, Ia., has incorporated his business, with capitalization of \$80,000, and will erect a large fire-proof seed warehouse.

Adolph Kruhm, formerly of Philadelphia, has taken a position in the retail department of Barteldes & Co., Lawrence, Kans.

MOVEMENTS OF GARDENERS.

I. W. Bagge, late of Golden Gate Park, San Francisco, takes charge of the De Sabla estate, San Mateo, Cal.

J. Bell has succeeded J. Donald as head gardener to Professor Osborne at Castle Rock, Garrison, N. Y. Mr. Donald is at present in Scotland.

SEND COPY EARLY.

Memorial Day comes this year on Thursday, HORTICULTURE'S regular publication day. On this account we shall go to press on Wednesday and copy for reading columns or advertising must reach us Tuesday, or not later than Wednesday morning to insure insertion.

PRIMULA SEED

The Finest in America

Giant	Orange King (novelty) Bright	
	Salmon	
	Pure White	Trade Pkt. \$1.00
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Giant	Double Pink	Trade pkt. \$1.00
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	deep rose	Tr. pkt. 50c
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Primula floribunda grandiflora		
	(Buttercup)	50c
	Forbesii (Baby Primrose)	25c
	Kewensis (Giant yellow)	Buttercup \$1.00

This charming addition to our greenhouse Primroses originated at the Royal Gardens, Kew, as an accidental cross between the small, but bright-flowered Himalayan species, *P. FLORIBUNDA*, and the sweet-scented *P. VERTICILLATA*, a native of Arabia. The plant is a strong grower, with bright green leaves, and numerous erect flower-scapes, 10 to 18 inches in height producing flowers in whorls at intervals along their whole length. The flowers are fragrant, bright yellow in color, with a slender tube and spreading limb, nearly an inch in diameter. As a winter-flowering decorative plant it is an acquisition; its floriferousness when in a very small state is remarkable.

ARTHUR T. BODDINGTON

342 W. 14th St., N. Y.

FIELD CROP PROSPECTS.

There has been no change in weather conditions during the past week. It continues cold with frosts nearly every night, and only hardy crops can be planted, those that can withstand the cold weather and even a little real frost. Potatoes are lying dormant where planted, or are rotting in the cold, wet ground, and much replanting will be necessary. The few who have ventured to put out tomato plants have labored in vain, as all have been killed, and even when protected by glass, unless aided by artificial heat, growers are compelled to cover the glass with mats or blankets to keep the plants from freezing. No corn has been planted, or very little at least, and replanting will absolutely be necessary in such instances. Of course, it is not yet too late for corn or potatoes to make a crop, but we cannot overlook the fact that we are getting close to the danger line, where every day's delay reduces crop prospects.

INCORPORATED.

La France Carnation Co., Elmira, N. Y.; flowers, plants and vegetables; capital, \$50,000; incorporators, F. L. La France, T. E. La France, D. A. Kent, H. A. La France.

TO CATALOG MAKERS.

We are able to quote a low price on the majority of the electros of the illustrations in HORTICULTURE.

PUBLICATIONS RECEIVED.

Report of the Park Commissioners of the city of Haverhill, Mass. Haverhill is to be congratulated in its 250 acres of beautiful park reservations, its intelligent management by a progressive Board, and last but not least, the genial superintendent, Henry Frost, who has held the position from the establishment of the Department, and whose portrait adorns the front page of this report.

The twenty-fourth annual report of the Board of Park Commissioners of Minneapolis, Minn., is received. This is the first report of Theodore Wirth as superintendent and, as is everything that gentleman undertakes, is thorough, practical and very interesting. It is illustrated with a number of views in the various reservations and there are three large maps showing contemplated improvements and additions.

Farmers' Bulletin 284 of the U. S. Department of Agriculture, issued May 10, treats of Insects and Fungous Enemies of the Grape east of the Rocky Mountains. It is an illustrated pamphlet of 48 pages, prepared by A. L. Quaintance and Dr. C. L. Shear. It states the nature of the insect enemies and the means of controlling them, then discusses the fungous parasites, including treatment, and in conclusion gives an account of spraying apparatus, with directions for applying spray mixtures.

"The Terrapin Scale" is the subject of Circular No. 88, issued May 14, by the Bureau of Entomology, U. S. Dept. of Agriculture. From every State east of the Mississippi River and several States west, also from Canada this, the most generally injurious of all the scales has been reported. It feeds on a wide range of plants, including both wild and cultivated trees and is a dangerous pest which may be controlled but never eradicated. The lime-sulphur wash, so effective against the San Jose scale is said to be worthless for treating the terrapin scale, and the kerosene emulsion has proved to be the most effective remedy thus far.

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For the Flower Garden,
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PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,
6 and 7 So. Market St., BOSTON.

ESTABLISHED 1802

*Thorburn's
Seeds*

Cold Storage LILY OF THE VALLEY PIPS, best possible grade, in cases of 1000 and 3000 pips each, at \$12.00 per 1000.

Advance Orders now being booked for BERMUDA EASTER LILIES and ROMAN HYACINTHS.

SEND FOR PRICES

J. M. THORBURN & CO.

33 Barclay St., through to 38 Park Place
NEW YORK

Everything of the Highest Grade

Grey's Highest Grade
of Tested Seeds

Send for Catalogue

THOMAS J. GREY & CO.

32 & 33 So. Market St., BOSTON

BRIDGEMAN'S SEED WAREHOUSE
RICKARDS BROS.
Props.

37 East 19th St., NEW YORK CITY

CAULIFLOWERS
CABBAGE

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

SHRUB AND GARDEN CHAT.

The improvements to be made at the estate of W. H. Moore, Pride's Crossing, Mass., this spring include a rose garden.

Spiraea Thunbergii has never been more beautiful than it is this season; it has bloomed with a profusion rarely equalled.

A formal garden is to be constructed in connection with the magnificent new country residence of C. P. Searle at Ipswich, Mass.

A good many prunuses are blooming sparsely this year, among them *P. pendula*. Pyruses as a rule are heavily loaded with flowers.

Wistarias throughout New England are flowerless this year. From all appearances the flower buds were destroyed in the early severe freezes last fall.

Ernest W. Bowditch has prepared plans for a large formal garden at the new summer home of Col. W. R. Nelson of Kansas City, which has been built this season at Magnolia, Mass.

Cornus florida is badly damaged and in many cases all the flower buds are dead. The pink flowered variety seems to be more tender than the white; in the vicinity of Boston one year in three is about the average of its blooming.

A dwarf *amelanchier* collected in Connecticut, and disseminated by the Arnold Arboretum, has proven to be one of the most useful of early blooming low border shrubs. It grows but eighteen inches to two feet in height and is covered with flowers clear down to the soil.

Rhododendron Vaseyi is making a beautiful show in the shrub plantations in the Boston parks this spring. The plants vary greatly in color some being almost white, others a deep glowing pink. This hardy azalea cannot be too freely used for early spring effect.

One of the finest things in the Arnold Arboretum during the past week is a specimen of *Prunus pseudo-cerasus* with beautiful purple-bronze foliage contrasting with the white bloom. The tree was grown from seed gathered by Professor Sargent in Japan, fourteen years ago.

Rhododendrons have suffered greatly from the effects of the severe winter in their foliage and their flower buds. In the varieties which are not in the "iron-clad" class the buds are in many cases entirely dead. Only those plants that occupy peculiarly sheltered locations or were given heavy winter protection will give a full crop this spring.

As anticipated, the demand for fancy ornamental hardy stock of every description has been tremendous throughout the entire country this spring. Many orders have been refused owing to the inability of dealers to supply the goods wanted. The country life journals and civic improvement societies have done much to develop this popular demand.

Notwithstanding the oft-repeated advice given in all magazines and papers treating on gardening topics that spring flowering shrubs should not be pruned until after they have bloomed, we still see butchered *forsythias* and *spiraes* on all sides—the greater part of their blooming wood trimmed off and their beauty gone—victims usually

Spring Bedding Plants

Crimson Ramblers

strong, shapely plants with an abundance of flowers, 7-in., 50c, 75c, \$1.00 each.

Baby Ramblers, 5-in., 20c, 25c each; 6-in., 35c, 50c each.

Cannes, strong plants, \$10, \$12.50, \$15, \$20 per 100.

Crotons, assorted varieties, \$25, \$35, \$50 per 100.

Hydrangeas, \$20, \$25, \$50, \$75 per 100.

Periwinkle, extra long, 4-in., \$15, \$18 per 100.

Geraniums, 4-in.; all colors, \$8, \$9 per 100.

Coleus, 3-in., \$4, \$4.50 per 100.

Alternanthera, 2½-in., red and yellow, \$4.00 per 100.

Hardy Ivy, 3 and 4-in., \$10, \$12.50, \$15 per 100.

Also a General Assortment of Miscellaneous Bedding and Basket Plants

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA.

1608-1618 Ludlow St.

200,000 Calla Lily Bulbs--Æthiopica



Calla Æthiopica, 10 inches circumference	100	1000
" " 9 "	\$10.00	\$90.00
" " 8 "	9.00	80.00
" " 7 "	8.00	70.00
" " 6 "	7.00	60.00
" " 5 "	5.50	45.00
" " 4 "	4.50	35.00
" " 3 "	3.50	25.00
" " 2 "	2.25	15.00

The above Bulbs are all warranted to be free from disease, and safe arrival is guaranteed. My first car leaves for the East promptly on June 15. If cash is sent with the order I will prepay the freight, which is 15 per cent value of the bulbs.

A. MITTING, 17-23 Kennan Street, SANTA CRUZ, CAL.

WHOLESALE TRADE LIST

Plants from 2½ in. pots, 50c. per doz. \$3.00 per 100

Ageratum Inimitable, *Princess Pauline* and *Blue Perfection*, *Heliotropes*, *Ipomaea Heavenly Blue*, variegated *Periwinkle*, *Cobaea scandens*, *Cuphea*, *Lobelia*, *Parlor Ivy*, *Snapdragon Giant White*. *Shasta Daisies*, 3 varieties, *Bouvardia Humboldtii* for summer flowering. *Night-Blooming Jasmine*.

Asparagus plumosus and *Sprengerii*, strong plants, 5-inch pots, \$2.00 per doz. *Dracaena indivisa*, fine stock, \$2.00 per doz. *Passiflora coerulea*, *Flordii* x *Mammoth Beauty*, a hardy variety from 4-inch pots, \$1.00 per doz; 3-inch pot plants, 75c. per doz. *Clematis paniculata*, 3-inch pots, 75c. per doz., \$5.00 per 100. *Clematis*, large-flowering varieties, home grown, two year old plants, \$3.00 per doz. *Swainsona alba*, 3-inch pots, 75c. per doz., \$5.00 per 100.

Hardy Scotch Pinks, 5 varieties, large clumps from open ground, \$1.00 per doz; nice young plants, \$3.00 per 100. *Coleus Verschaffeltii*, *Golden Bedder*, *Queen Victoria*, *Achyranthes Lindenii*, *Alternanthera* best red, yellow and pink, 2½-inch pots, \$2.00 per 100.

Viburnum plicatum, *Wistaria sinensis*, Variegated *Periwinkle*, plants from 4-in. pots, \$1.50 per doz., \$10 per 100.

Seedlings from flats at \$1.00 per 100

Asparagus Sprengerii, *Ageratum*, *Dracaena indivisa*, *Marguerite Carnations*.

C. EISELE, - - 11th and Roy Streets, PHILADELPHIA, PA.

of garden owners who want things "trim and tidy" on their grounds.

SPRING PLANT PRICES IN DETROIT.

At last we have been favored with a few warmer days and the fears of the plantsman have been relieved through that. Most bedding plants are here disposed of to grocers and hucksters, and they are put up in boxes containing thirty 4-inch pots each. So far a good start has been made with a fair price, i. e., \$2.40 per box. Pansies bring \$3.00 per 100. Reputable flower stores sell geraniums at \$1.50 per doz., but it is doubtful whether the majority of florists are willing to keep the price at this figure. I say willing because the buying public is ready to pay that much as long as there is no chance to get them any cheaper. The total visible supply of this class of plants is limited and the opportunity to break

away from the old timeworn custom of selling geraniums for \$1.00 per doz. and establish a living price of \$1.50 per doz. has never been better. This matter of getting a price above the bare cost of production in these articles of course resolves itself into the question of whether all of the dealers are willing to ask the advanced price.

FR. DANZER.

GERANIUMS

3000 to 4000 Geraniums, *S. A. Nutt*, *Beaute Poitevine*, in 3 and 3½ in. pots, \$6.00 per 100.

200 *Beaute Poitevine*, very large plants, 13-15 inches in diameter, \$6.00 per dozen.

Call and inspect the stock before buying elsewhere.

A. C. LAKE

Wellesley Hills - - - Mass.

Dreer's Hardy Perennial Phlox

We are the largest growers of Perennial Phlox in the world. Our collection is unequalled, and we are prepared to furnish the new and rare kinds as well as all the popular and standard varieties in large quantities.

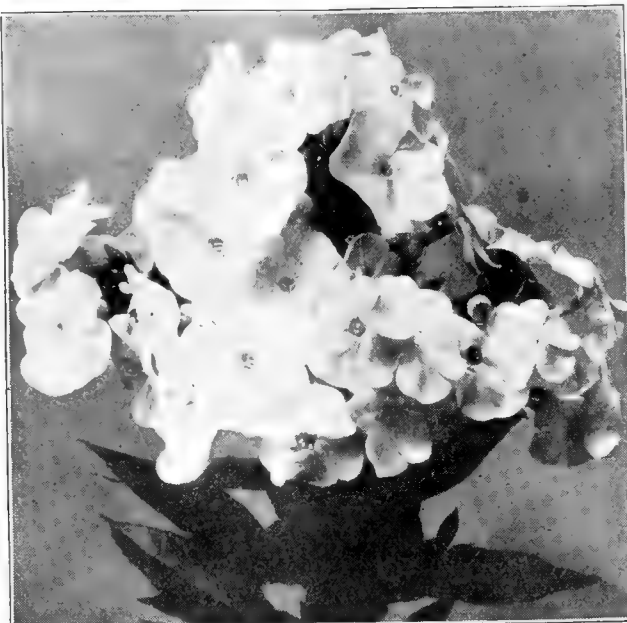
The plants we offer are nearly all strong one-year-old field-grown plants or equally strong divisions, and will make a fine display of flowers this season. This stock is much superior to and must not be confounded with young Winter propagated stock such as is generally sent out in the Spring of the year.

New and Rare Hardy Phlox and Varieties of Special Merit

	Per doz.	100	1000
Albion (Tall). A variety which originated with us several years since and which is now offered for the first time. Strong grower, pure white with faint aniline red eye.....	\$1.50	\$10.00	\$90.00
Chateaubriand (Medium). Pure white, with crimson carmine eye.....	1.25	8.00	70.00
Coquelicot (Dwarf). A fine pure scarlet.....	.95	6.00	50.00
Etna (Medium). Crimson red, suffused with fiery red.....	1.25	8.00	70.00
Edmond Rostand (Medium). Reddish violet, with large white star-shaped center.....	1.50	10.00	90.00
F. G. von Lassburg (Tall). The finest white in cultivation, pure in color, a strong, vigorous grower.....	2.00	15.00	125.00
H. O. Wijers (Tall). A fine large pure white, with crimson carmine eye.....	1.25	8.00	70.00
Independence (Tall). An excellent large flowering early white.....	.85	6.00	50.00
Lamartine (Tall). Very bright magenta, with large white center.....	1.25	8.00	70.00
Le Mahdi (Tall). Deep reddish violet, darker eye.....	1.25	8.00	70.00
Mrs. Jenkins (Tall). An early flowering, pure white, forming an immense panicle, one of the best.....	1.50	10.00	90.00
Stella's Choice (Tall). A mauve branching late white variety.....	.85	6.00	50.00
Selma (Tall). Pale rose mauve with distinct claret red eye.....	1.50	10.00	90.00

Choice Standard Phloxes

Aquillon (Tall). Bright Tyrian rose.
Andreas Hoffer (Medium). An early and continuous flowering pure white.
Bouquet Fleuri (Dwarf). Pure white, with crimson-carmine eye.
Bridesmaid (Tall). White, with large crimson carmine centre.
Bacchante (Tall). Tyrian rose.
Colibri (Tall). White, with crimson-carmine centre, late.
Champs Elysee (Medium). Bright rosy magenta, an effective shade.
Crystal Palace (Tall). Lilac with white markings.
Cross of Honor (Medium). White, with a band of reddish violet through the centre of each petal.
Cyclon (Dwarf). White, suffused with lilac.
Eclairer (Tall). Brilliant rosy magenta, with light halo.
Eugene Danzenviller (Tall). Lilac, shading white toward the edges.
Esclarmonde (Tall). Lilac, washed with white.
Edmond Audrand (Medium). Deep mauve.
Pantome (Tall). Bluish lilac, washed with white.
Graf von Ungerer (Tall). White, suffused with rosy-lilac.
Inspector Peiker (Tall). Purplish mauve, washed with white.
Jeanne d'Arc (Tall). A late flowering pure white.
La Vogue (Medium). Pure mauve, with aniline red eye.
La Soliel (Medium). Rosy magenta, with light halo.
Mollier (Tall). Bright rosy magenta, with light halo.
Mozart (Tall). White, suffused with salmon.
Miramar (Dwarf). Reddish violet with white markings.



Mme. Marie Kuppenheim (Dwarf). A fine late pure white.
Offenbach (Dwarf). Lilac purple, lighter shadings.
Obergartner Wittig (Medium). Bright magenta, the best of its color.
Pocheur d'Islande (Tall). Crimson-red, suffused with cochineal red.
P. Bonstaine (Medium). Deep rosy magenta.
Professor Schliem in (Tall). Pure mauve with crimson-carmine eye.
Roxelane (Tall). Reddish violet with aniline red eye.
Sunshine (Dwarf). Aniline red with lighter halo.
Simplon (Tall). White with aniline red eye.
Semiramis (Tall). Rosy magenta with lighter centre.
Schlossgartner Reichenau (Dwarf). Solferino, red.
Thebaide (Dwarf). Carmine lake with brighter shadings.
Talma (Dwarf). Rosy magenta, small white eye.
Wm. Muhle (Tall). Carmine-purple with crimson eye.
PRICE—Choice Standard Varieties. Strong Plants, 75c. per doz.; \$5.00 per 100; \$40.00 per 1000.

Phlox Subulata

Moss Pinks or Mountain Pinks

Alba. White.
Altropurpurea. Purplish rose.
Lilacina. Light lilac.
Nelsoni. Pure white.
Rosea. Bright rose.
The Bridesmaid. Purplish tinted white with deeper eye.
 All the above in strong clumps, 75c. per doz.; \$5.00 per 100; \$40.00 per 1000

Phlox—Various Types

	Per doz.	Per 100
Amoena . Clumps.....	\$0.75	\$6.00
Divaricata Canadensis . 3-in. pots.....	.75	6.00

For complete list of hardy Perennial Plants, see our current Quarterly Wholesale List just issued

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA

The above prices are only for Florists, or those engaged in the trade

BEDDING PLANTS

Of Every Description

Also a fine lot of Palms in all sizes, such as Kentias, Arcas, Latanias, Phoenix and Cocos. Pandanus Veitchii and utilis, Crotons, Dracaenas, Nepenthes, Aralias, Araucarias, Aspidistras, Ferns suitable for dishes, in leading varieties. Cibotium Schiedel from \$1.00 to \$3.00 each.

Will book contracts for Azaleas for future delivery. Wholesale Price List on application.

A. LEUTHY & CO.,

Importers and Exporters, Growers and Dealers,
 Perkins St. Nurseries, Roslindale,
 BOSTON, MASS.

Bedding Plants

I have the following stock to offer in any size and in any quantity:

Salvia { **SPLENDENS**
BONFIRE
ST. LOUIS

COLEUS in eight varieties
AGERATUM, dwarf blue
GERMAN IVY
HELIOTROPE, Little Giant
RAMBLER ROSES in 6, 7 and 8 in. pots

JOHN SCOTT

Rutland Road and East 45th St.
 Telephone 2890 Bedford. BROOKLYN, N. Y.

Geraniums Geraniums

The following varieties, in 4 in. pots, in bud and bloom, in fine condition. \$6 per 100.

S. A. Nutt, **Beaute Poitevine**, **LaFayette**, **John Doyle**, **Bruanti**, **Marq. Castellane**, **Trego**, **Buchner**, **Richard Brett**, **Ricard**, **F. Perkins**, **Jean Viaude**, **Double Grant**, **Marq. de Montmort** and several others.

Selection of sorts to remain with us.

Cash to accompany all orders.

J. E. FELTHOUSEN

154 Van Vranken A SCHENECTADY, N. Y.

NOW FOR MEMORIAL DAY

We are all ready with the biggest and most desirable stock ever offered in this country.

Immortelle and Cycas Wreaths, Metal and Porcelaine Designs, Inscriptions, Letters, Emblems, Bouquet Holders, Doves, Cape Flowers, Sheaves, Fibre Ribbon, Waterproof Crepe Paper, Vases, Tone Ware, Tin Foil, Wire Frames, Etc.

All the above and many others. Just what you want. Order early and let people see you have them. Catalogue for the asking

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia, Pa.

The Florists' Supply House of America

FOR MEMORIAL DAY

BEAUTY, RICHMOND and All Other ROSES, CARNATIONS, VALLEY, STOCK, PEAS, AND ALL OTHER CHOICE FLOWERS.

In our **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition to our regular wholesale **EVERGREENS and FLORISTS' SUPPLIES**

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. Boston, Mass.
and 9 Chapman Place,

See our Greens Advertisement on page 699.

L. D. Telephone, Main 2618.

BALTIMORE NOTES.

A hail storm visited parts of Baltimore on the 19th inst. The suburb of Brooklyn appears to have been the most severe sufferer. Among those reported to have been badly hit were Lehr Bros., with 125 boxes of glass broken, also Martin Duckstein and John Rider, with no details. It is understood that neither of those mentioned carried any insurance. The neighborhood of Rider and Ruxton was also touched slightly.

William Fraser, proprietor of the Ruxton Floral Nursery Co., is threatened with a break up of his snug little twenty acre property on account of railroad extension. That a good round sum to make up for the disruption will be forthcoming is some consolation.

John Cook has a new shell-pink, ever-blooming rose as yet unnamed, which he considers has more good points from the florists' standpoint than anything he has yet raised. Madonna still remains his favorite as the loveliest of all white roses.

Isaac H. Moss is greatly pleased with the range of connecting houses built for him last year by the Lord & Burnham Co. He finds it easy to control the temperature for different sections without the aid of partitions by merely cutting out the heat where not wanted.

Fred C. Bauer has produced some remarkable seedlings of *Lilium longiflorum* which show great size and vigor. He is also an enthusiast in crossing and selecting the fuchsia which he grows quite extensively.

of Cooks is not related to the other celebrated Baltimorean of the same name.

The Clark establishment on Park Heights avenue has been purchased by Carroll B. Hoffman, who is running it in connection with his old place which adjoins.

Chas. L. Seybold is now located at Carroll Park as superintendent, and a vast improvement is already noticeable during the short period of his incumbency. This park was originally designed and laid out by Mr. Seybold, some 14 years ago.

Edwin A. Seidewitz has a fine new retail store at 323 North Charles street, built last year at Arlington.

Mr. Lehr, senior, father of William and Henry Lehr of Brooklyn, is still hale and hearty, although in his 83rd year.

Considerable damage resulted to early shrubbery and herbaceous plants in this vicinity from the late spring frosts—particularly to lilacs and peonies.

Samuel S. Pennock, Philadelphia, and other visitors were treated to a ride in William Feast's new auto, on the 22nd inst., making a circle of trade visits in record time and unexampled elegance.

G. C. W.

SEND COPY EARLY.

Memorial Day comes this year on Thursday, HORTICULTURE'S regular publication day. On this account we shall go to press on Wednesday and copy for reading columns or advertising must reach us Tuesday, or not later than Wednesday morning to insure insertion.

John Stinson has been appointed highway commissioner of Norwood, Pa.

NEWS NOTES.

G. V. Nash of the N. Y. Botanical Garden gave a lecture on Water Lilies and Aquatic Plants at the Bronx Park Museum on Saturday, 18th inst.

In a hailstorm which visited Pine Bluff, Ark., on May 6, vegetation suffered severely. The greenhouses of Mrs. C. A. Starr had much glass broken.

The Illinois State Fair will be held at Springfield, Ill., September 27 to October 1. Prize schedules may be obtained from R. O'Dwyer, 110 So. Desplaines St., Chicago.

Allen M. Good of Waynesboro, Pa., claims to have perfected an inexpensive mixture which has proved superior to the lime, sulphur and salt wash to destroy the San Jose scale.

The Board of U. S. Appraisers at the port of New York have advanced the valuation of 240 *Dendrobium Wardianum* from Sander & Sons, London, from 12 pounds to 13 pounds 10 shillings; add cases.

At the Spaulding estate at Pride's Crossing, Mass., work is progressing on a formal garden of ten acres' extent which, when completed, will form one of the most notable horticultural features of the North Shore.

The item regarding a fire in the greenhouse of G. W. & W. A. Temple, in our last week's issue, should have stated that the fire was in the greenhouse of W. A. Temple, Hopkinton, Mass., and there was no insurance.

TO CATALOG MAKERS.

We are able to quote a low price on the majority of the electros of the illustrations in HORTICULTURE.

BUSINESS CHANGES.

W. J. Marshall of Togus, Me., has purchased the Copeland street greenhouses at Campello, Mass.

The Golden Gate Floral Company has opened a flower store at 989 Golden Gate Ave., San Francisco, Cal.

The Wagoner Floral Company succeeds Wagoner's and the Columbia City Greenhouses at Columbia City, Ind.

F. B. Vandegrift & Co., custom house brokers have removed from Beaver street to 15-25 Whitehall street, New York City.

Frank X. Dienst of Middletown, N. Y., has purchased the greenhouses of G. S. Belding on Cottage street and will take possession on June 1.

James W. Davis has purchased the greenhouses of the Allison & Pope Company at Davenport, Ia., and will devote them to vegetable forcing.

Walter Mott has formed a partnership with Frank Burfit and the new firm will take over the business of M. I. O'Brien, Sharon, Pa., on July 1.

R. Vincent, Jr. & Sons Co., White Marsh, Md., have incorporated their business with \$100,000 capital. The officers are: R. Vincent, Jr., president; R. A. Vincent, secretary; T. A. Vincent, treasurer. The new company will take over all the business, greenhouse stock, land, tenement houses, etc., except the private homes, which the individual members formerly held jointly and there will be 50,000 feet of modern construction added to the greenhouses during the coming summer. Geraniums will be the leading specialty; 400,000 dahlias will be planted for roots and special attention will be given to hardy chrysanthemums and fuchsias.

NEWS NOTES.

Wm. A. Wettlin will remodel and enlarge his store in Hornellsville, N. Y., this summer.

Miss Nellie Sniffen has secured a position with E. J. Taylor, Greens Farms, Ct.

Calvert & Son of Lake Forest, Ill., will soon retire from business, if reports are true, after a successful career of a quarter of a century.

Mrs. Carrie Rehm will hereafter carry on the business at 832 Canal street, and at St. Charles and Napoleon avenues, New Orleans, La.

An appeal from a decision by the customs officials in charging 25 per cent. duty on rose cuttings imported into this country from Canada, has been decided against the American Express Company, and the action of the government sustained in the U. S. Court at Buffalo.

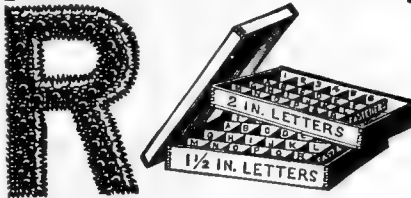
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They are the best Florists' Letters and Emblems made. For sale by all first class Supply Houses. Made by

KORAL MFG. CO., 26 Hawley St., Boston

JACOB SCHULZ, 644 Fourth Ave.,
Cut Flowers of BEST QUALITY in season
delivered promptly to any address.
Write, Telegraph or Telephone.
Cumberland and Home Phones 223 and 984.

BOSTON FLORIST LETTER CO.
Manufacturers of FLORISTS' LETTERS

This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. McCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

**JOHN BREITMEYER'S
SONS**

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada

P. J. HAUSWIRTH

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**WILLIAM L. ROCK
Flower Co.**
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and any town in Missouri or Kansas.

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We ship to all points in Illinois and Iowa.
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Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

571 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
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Deliver orders from any part of the country to
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Or OUT-GOING STEAMERS

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42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

The Park Floral Co.

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Pres.

DENVER, COLORADO



WASHINGTON,
D. C.

GUDE'S

**Geo. H. Cooke
FLORIST**

Connecticut Avenue and L Street
WASHINGTON, D. C.

Send flower orders for delivery in
BOSTON

and all
NEW ENGLAND POINTS
to

THOS. F. CALVIN
124 Tremont St., Boston

**Theodore Miller
FLORIST**

Long Distance Phones: Bell, Forest 56; Kinlock, Delmar
4832 Delmar Boul. ST. LOUIS, MO.

Gattleya Mossiae

VERY CHOICE FLOWERS

\$50.00 per 100

LEO NIESSEN CO. WHOLESALE FLORISTS

1209 Arch St., PHILA.

Store open from 7 A. M. to 8 P. M.

FOR DECORATION DAY

PAEONIES \$10.00 PER HUNDRED

ROSES OUR SELECTION, VERY GOOD VALUE, NO. 2s **\$30.00 PER THOUSAND**

S. S. PENNOCK-MEEHAN CO.

THE WHOLESALE FLORISTS OF PHILADELPHIA

1608-1618 LUDLOW ST.

Store closes at 8 p. m.

EVERYTHING SEASONABLE IN
CUT FLOWERS

EDWARD REID, Wholesale Florist

1526 Kanstead Street, PHILADELPHIA
Store Closes 8 P. M.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

GEO. A. SUTHERLAND CO.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

**CHOICE VALLEY
and SWEET PEAS**

W. E. McKISSICK

Wholesale Florist

1221 Filbert St., PHILADELPHIA

Cut Flowers

... and ...
**Florists', Growers and Nurserymen's
Supplies**

A. L. RANDALL CO., 19-21 Randolph St. CHICAGO.
Catalog mailed upon request

DAILY CONSIGNMENTS

From 40 to 60 Growers

We can care for your cutflower wants to advantage.

E. F. WINTERSON CO.

45-47-49 WABASH AVE., CHICAGO

ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting
especially adapted for florists' use.

Books Balanced and Adjusted

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28 STATE ST., BOSTON

Telephone, Main 58

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

PETER REINBERG

WHOLESALE

CUT FLOWERS

51 Wabash Av., Chicago, Ill.

In writing advertisers mention Horticulture

AMERICAN BEAUTY and all other
ROSES

LILY OF THE VALLEY, CARNATIONS

WELCH BROS., 226 Devonshire St., Boston, Mass.

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO May 20		TWIN CITIES May 20		PHILA. May 21		BOSTON May 23	
ROSES								
A.m. Beauty, Fan. & Sp.	25.00	to 35.00	25.00	to 35.00	20.00	to 25.00	20.00	to 25.00
" Extra.....	15.00	to 20.00	20.00	to 25.00	12.00	to 15.00	15.00	to 20.00
" No. 1.....	10.00	to 12.00	.....	to 8.00	8.00	to 10.00	8.00	to 10.00
" Lower grades.....	6.00	to 8.00	.....	to 5.00	5.00	to 6.00	2.00	to 6.00
Bride, 'Maid, Golden Gate, F. & S.	7.00	to 8.00	6.00	to 8.00	6.00	to 8.00	6.00	to 8.00
" " " Extra.....	5.00	to 6.00	4.00	to 6.00	4.00	to 5.00	3.00	to 4.00
" " " No. 1 & lw. gr.	3.00	to 4.00	.....	to 2.00	2.00	to 3.00	.50	to 3.00
Liberty, Richmond, Fan. & Sp.	7.00	to 8.00	6.00	to 8.00	8.00	to 12.00	8.00	to 12.00
" " Lower grades.....	3.00	to 5.00	4.00	to 6.00	3.00	to 5.00	.50	to 6.00
Chatenay, Morgan, Fan. & Sp.	6.00	to 8.00	6.00	to 8.00	6.00	to 8.00	4.00	to 6.00
" " Lower grades.....	3.00	to 4.00	4.00	to 6.00	4.00	to 5.00	.50	to 3.00
Killarney, Wellesley, Fan. & Sp.	7.00	to 8.00	6.00	to 8.00	6.00	to 8.00	6.00	to 8.00
" " Lower grades.....	3.00	to 5.00	4.00	to 6.00	3.00	to 4.00	.50	to 4.00
CARNATIONS								
Fancy and Novelties.....	.....	to 4.00	3.00	to 4.00	2.00	to 4.00	2.00	to 3.00
Ordinary.....	.....	to 3.00	2.00	to 3.00	1.00	to 1.50	1.00	to 1.50
MISCELLANEOUS								
Sweet Peas.....	.50	to 1.00	.75	to 1.00	.50	to 1.50	.25	to 1.00
Cattleyas.....	40.00	to 50.00	.....	to 40.00	40.00	to 50.00	35.00	to 50.00
Tulips, Daffodils.....	.....	to 3.00	3.00	to 4.00	1.00	to 2.00	.50	to 1.00
Lilies.....	12.00	to 15.00	12.00	to 15.00	8.00	to 10.00	6.00	to 8.00
Callas.....	8.00	to 10.00	12.00	to 15.00	8.00	to 10.00	6.00	to 8.00
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00	.50	to 2.00
Gardenias.....	1.00	to 1.50	1.50	to 2.00	12.50	to 15.00	10.00	to 25.00
Mignonette.....	4.00	to 8.00	.....	to 2.00	2.00	to 4.00	1.00	to 2.00
Lilacs (too bunches).....	25.00	to 50.00	.....	to 10.00	10.00	to 50.00	25.00	to 50.00
Peonies.....	6.00	to 8.00	3.00	to 4.00	6.00	to 8.00	.....	to 8.00
Adiantum.....	.75	to 1.00	.....	to 1.00	1.50	to 2.00	1.00	to 1.50
Smilax.....	18.00	to 25.00	18.00	to 20.00	12.50	to 15.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	35.00	to 50.00	35.00	to 50.00	to 50.00
" " & Spreng. (too bchs.).....	35.00	to 50.00	to 35.00	35.00	to 50.00	35.00	to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON Stock in the cut flower markets is in over supply and can't be moved at quoted prices. But as it could not be moved at lower prices nothing would be gained by cutting rates. If anybody wanted it the present price would not stand in the way. To be explicit, the present is the dullerest week of the season. The outlook for Memorial Day is pretty good. Carnation growers are on the verge of the customary June crop which always begins to assert itself about this time and the prospects are for a big and altogether luscious cut of carnations for the great floral holiday. The rose market, is as always, in a state of unrest. Let it be recorded that the high-grade roses are not in great request for Memorial Day. But the smaller material will sell well and the price will be paid cheerfully. Spireas are late and it is a question whether they get in for the holiday. Colored stocks will also be scarce, an unusual condition at this date. Out-door lilac, lily of the valley, etc., will be exactly on time.

COLUMBUS Trade has been especially good for so late in the season; but it does not seem at all like the end of May, more like early April. Stock of all sorts is much more plenty particularly carnations, and it certainly begins to look much more favorable for Memorial Day trade. The closing of cemeteries to Sunday burials, has resulted in making many florists busier than ever on Sunday, getting their

flower orders ready for Monday and there can be no question that those firms who do not open at all on Sunday will lose more or less business. As regards retail prices they remain without much change.

DETROIT Business in general is reported quiet. Carnations are just about enough. Roses have been very scarce the forepart of the week, but are becoming a little more plentiful.

INDIANAPOLIS Trade the past week has been about on a par with the preceding week, just about running equal to demand. Quality in all lines is all that could be desired. Beauties are plentiful, fine and in good demand. There seems to be no special call for Richmond and Liberty roses. Out-door lily of the valley is in abundance, depreciating the in-door grown stock. Fancy peas are to be had in any quantity. Carnations are holding their own with a good demand. Snap dragon has never been finer and finds ready sale. The plantmen are now in their glory, this being the height of the bedding season, that oft-repeated phrase "Sales far in advance of last year" still holding good. At present outlook it is doubtful whether there will be any outside blooms for Decoration Day in this section. In greens everything is to be had now.

NEW YORK The market is still loaded down with a superfluity of flowers in all varieties and grades and there is little that can be said in the way of

encouragement except that, had the weather been seasonably warm and sunny, the situation would have been worse. Memorial Day holds out prospects of activity as, of late years, the importance of this occasion has increased materially and the demand from out-of-town points will undoubtedly make good inroads on the stock of carnations, lilies, peonies, etc., as well as the medium grades of roses.

PHILADELPHIA Last week found business very much more stagnated than any week this season. The weather was much warmer which brought in a tremendous lot of all kinds of flowers, particularly roses and carnations, which sold at almost any price for the poorer grades. Carnations were sold by more than one wholesale house at 5c. a bunch and in some cases less to the street men who really were the only people who kept the stock moving at all among the wholesale houses and then only half-heartedly. Beauties were very plentiful, quality excellent, and moved off in better shape than the small roses. All small roses moved very poorly, excepting possibly the higher grades. Carnations kept very poorly, consequently sold poorly. The majority of sweet peas, on account of the warm weather, have not reached the market in at all salable shape. Lilies of the valley moved fairly well, perhaps not as good as might be, on account of the outdoor stock which is coming in.

Continued on page 725.

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 Finest American Beauties and
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FINE ROSES FANCY CARNATIONS
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Long Established and Well Recommended

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending May 18 1907	First Half of Week beginning May 20 1907		Last Half of Week ending May 18 1907	First Half of Week beginning May 20 1907
Roses			Carnations, Ordinary	1.00 to 2.00	1.00 to 2.50
Am. Beauty, fan and sp.	12.00 to 20.00	15.00 to 20.00	Sweet Peas (100 bunches)	3.00 to 8.00	3.00 to 8.00
" extra	8.00 to 10.00	8.00 to 10.00	Cattleyas	40.00 to 50.00	40.00 to 50.00
" No. 1	5.00 to 8.00	5.00 to 8.00	Tulips, Daffodils	1.50 to 2.00	2.00 to 3.00
" Lower grades	1.00 to 3.00	1.00 to 3.00	Lilies	4.00 to 8.00	6.00 to 8.00
Bride, 'Maid, Golden Gate, fan & sp	4.00 to 6.00	5.00 to 6.00	Callas	4.00 to 6.00	4.00 to 6.00
" " " Extra	3.00 to 4.00	3.00 to 5.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
" " " No. 1 & lw. gr.	1.00 to 3.00	1.50 to 5.00	Gardenias	3.00 to 20.00	3.00 to 20.00
Liberty, Richmond, fancy & special	8.00 to 10.00	8.00 to 10.00	Mignonette	1.00 to 3.00	1.00 to 3.00
" lower grades ..	1.50 to 4.00	2.00 to 4.00	Lilacs (100 bunches)	10.00 to 25.00	4.00 to 20.00
Chatenay, Morgan, fancy and spec.	4.00 to 6.00	4.00 to 6.00	Peonies .....	..... to .....	..... to
" lower grades ..	1.00 to 3.00	1.00 to 3.00	Adiantum .....	.50 to .75	.50 to 1.00
Killarney, Wellesley, fan. and spec.	4.00 to 8.00	5.00 to 8.00	Smilax	10.00 to 15.00	10.00 to 15.00
" lower grades ..	1.50 to 3.00	1.50 to 3.00	Asparagus Plumosus, strings	25.00 to 35.00	25.00 to 35.00
Carnations, Fancy and Novelties ..	3.00 to 4.00	3.00 to 4.00	" " & Spreng. (100 bchs.)	15.00 to 25.00	15.00 to 25.00

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DISCOUNT ON LARGER ORDERS

GREEN and BRONZE GALAX, \$1.25 per 1000, LEUCOTHOE SPRAYS, \$1.00 per 100, \$7.50 per 1000
\$7.50 Case of 10,000 Let us have your standing order for Fern. BOXWOOD 20c lb., 50 lbs. \$8.50

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Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties
and are dealers in

Glassware Decorative Greens and Florists' Requisites.

NEWS NOTES.

Penstock Bros. have installed a new cold storage system at their establishment 1514 Chestnut street, Philadelphia.

J. H. Thurston succeeded Jos. Free, resigned, as manager of the Park Street Flower Market, Boston, on Monday, May 20.

The trailing arbutus is reported to be very scarce in certain districts in Connecticut where it has been abundant previous to this season. In many places it is entirely dead.



Headquarters for

FANCY and DAGGER FERNS

SELECTED STOCK

Fancy, \$1.75 per 1000; Daggers, \$1.50 per 1000.
Laurel Festooning, best made, 4c, 5c and 6c per yard; once used, always used. Laurel Wreaths, \$3.00 per doz.; cheaper grades if wanted. Southern Smilax, fancy stock, 50-lb. ca-e-, \$5.50. Branch Laurel, 35¢ per bunch. Princess Pine, 7c per lb. Brilliant, Bronze or Green Galax, No. 1 stock, 75c per 1000, or \$6.50 per case of 10,000.

Telegraph office: New Salem, Mass.
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CROWL FERN CO., Millington, Mass.

NEW CROP DAGGER AND FANCY FERNS

\$2.00 per 1000.

WE HAVE VERY FINE CUT BOX WOOD.

BRONZE AND GREEN GALAX.

Per 1000, \$1.00; Case of 10,000, \$7.50

Best Southern Smilax, \$3.50 and \$7 per case.

Headquarters for all FLORISTS' SUPPLIES. Wire Designs, Cut Wire, Letters, Immortelles, Cypas Leaves, Wheat Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 15 Province St.,
9 Chapman Pl., Boston, Mass. L. D. Telephone, Main, 2617-2618.

WHOLESALE FLOWER MARKETS.

PER 100. TO DEALERS ONLY.

	CINCINNATI May 13	DETROIT May 20	BUFFALO May 20	PITTSBURG May 20
ROSES				
Am. Beauty, Fan. and Sp.	to 25.00	20.00 to 25.00	20.00 to 22.00	20.00 to 25.00
Extra	15.00 to 25.00	15.00 to 20.00	15.00 to 20.00	12.50 to 15.00
No. 1	15.00 to 20.00	15.00 to 20.00	8.00 to 15.00	6.00 to 8.00
Lower grades	6.00 to 10.00	4.00 to 12.00	3.00 to 5.00	2.00 to 4.00
Bride, 'Maid, Golden Gate, F. & S.	5.00 to 8.00	6.00 to 8.00	7.00 to 8.00	6.00 to 8.00
Extra	5.00 to 6.00	..... to	6.00 to 7.00	..... to 4.00
No. 1 & l.w. gr.	3.00 to 4.00	3.00 to 5.00	2.00 to 6.00	..... to 2.00
Liberty, Richmond, Fan. & Sp.	..... to 8.00	6.00 to 8.00	10.00 to 15.00	8.00 to 10.00
Lower grades	4.00 to 6.00	3.00 to 5.00	3.00 to 10.00	4.00 to 6.00
Chatenay, Morgan, Fan. & Sp.	..... to 8.00	6.00 to 8.00	10.00 to 15.00	8.00 to 10.00
Lower grades	4.00 to 6.00	3.00 to 5.00	3.00 to 10.00	4.00 to 6.00
Killarney, Wellesley, Fan. & Sp.	..... to 6.00	6.00 to 8.00	10.00 to 15.00	6.00 to 8.00
Lower grades	..... to 3.00	3.00 to 5.00	3.00 to 10.00	..... to 4.00
CARNATIONS				
Fancy and Novelties	2.00 to 3.00	3.00 to 4.00	2.50 to 3.00	2.00 to 3.00
Ordinary	1.00 to 2.00	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
MISCELLANEOUS				
Sweet Peas	.50 to .75	.50 to 1.00	.40 to 1.00	.25 to 1.00
Cattleyas	..... to 50.00	50.00 to .....	..... to	40.00 to 50.00
Tulips, Daffodils	..... to 3.00	..... to	2.00 to 3.00	..... to .75
Lilies	10.00 to 12.00	12.00 to 15.00	8.00 to 12.00	10.00 to 12.00
Callas	8.00 to 10.00	12.00 to 15.00	8.00 to 10.00	..... to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	..... to 4.00
Gardenias	..... to 35.00	..... to .....	..... to	1.50 to 2.00
Mignonette	..... to 3.00	3.00 to 8.00	1.00 to 3.00	..... to 2.00
Lilacs (too bunches)	..... to .....	..... to .....	..... to	2.00 to 4.00
Peonies	..... to .....	..... to .....	..... to	6.00 to 8.00
Adiantum	..... to 1.00	1.50 to 2.00	.50 to 1.00	1.00 to 1.25
Smilax	10.00 to 12.50	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00
Asparagus Plumose, strings	40.00 to 50.00	50.00 to	40.00 to 50.00	25.00 to 50.00
" & Spren. (too bchs.) to 25.00	30.00 to 30.00	25.00 to 50.00	25.00 to 50.00

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R. J. Dysart, 28 State St., Boston.
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ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Petersen, McHenry Ave., Westwood, Cincinnati, O.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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A bargain in *Alternantheras*, red and yellow, good 2 in., \$1.00 per 100. Cottage Floral Co., Little Rock, Ark.

AQUATICS

Water hyacinths, \$2.00 per 100.

C. W. Bakewell, Gretna, La.

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A. Leuthy & Co., Roslindale, Mass.
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ASPARAGUS

C. Elsele.

11th and Roy Sts., Philadelphia, Pa.
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Asparagus Sprengerii, good vines, 4 in., \$8.00 per 100. Krueger Bros., Toledo, O.

Asparagus plumosus nanus and *Sprengeri*, 2 1-2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

ASTERS

Asters, extra early Queen of the Market, white, pink purple, etc., \$2.00 per 1000, ready now. Sample's Branching in June. E. Fryer, Johnstown, Pa.

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Bedding plants, trees, shrubs, conifers, bay trees, etc., every Tuesday and Friday. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

AZALEAS

A. Leuthy & Co., Roslindale, Mass.
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BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

J. E. Felthousen, Schenectady, N. Y.
For page see List of Advertisers.

C. Elsele, 11th and Roy Sts., Phila.
Spring Bedding Plants.
For page see List of Advertisers.

John Scott, Rutland Road & 45th St., Brooklyn, N. Y.
For page see List of Advertisers.

R. Vincent, Jr., & Son, White Marsh, Md.

100,000 Bedding Plants, all sorts. Write for prices. E. D. Kaulback & Son, Malden, Mass.

Spring Bedding Plants in variety at auction every Tuesday and Friday during spring season. Purchases made on order. Mail your bid. N. F. McCarthy & Co., 84 Hawley St., Boston.

Marguerites, white heavy 4 in., 3c. each. Cottage Floral Co., Little Rock, Ark.

BEGONIAS

Wm. Elliott & Sons, 201 Fulton St., N. Y.
Tuberous Begonias.
For page see List of Advertisers.

Begonia Dew Drop, 2 1-2 in., \$1.50 per 100; \$15.00 per 1,000. S. W. Carey, Florist, Urbana, Ohio.

Begonia Gloire de Lorraine, Extra fine, 2 1-4 inch pot. Leaf cutting \$12 per 100; \$100 per 1000. Delivery May 1st. Julius Roehrs Co., Rutherford, N. J.

BERRIED PLANTS

Raspberry Plants, 7,000 Gregg Black Raspberry, at \$5 per 1,000. Albert Lawrence, Macedon, N. Y.

BOILERS

BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

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Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y.
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Rickards Bros., 37 East 19th St., New York.
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H. F. Michell Co., Philadelphia.
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Johnson Seed Co., 217 Market St., Phila.
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Jonh Scheepers & Co., Arnhem, Holland.
For page see List of Advertisers.

V. H. Hallock & Son, Queens, N. Y.
Lilium Auratum.

For page see List of Advertisers.

H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

For page see List of Advertisers.

Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

CANNAS

The Conard & Jones Co., West Grove, Pa.
For page see List of Advertisers.

Cannas, 1000 each, *Allemania*, Austria, Burbank, \$1.00 per 100. O. B. Stevens, Shenandoah, Iowa.

Cannas started in sand, \$2.50 per 100; Pennsylvania, Austria, Cinnebar, Mille. Berat and Chas. Henderson. J. B. Shurtleff & Son, Revere, Mass.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.

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Chicago Carnation Co., Joliet, Ill.

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A. J. Guttman, 43 W. 28th St., New York.
Carnation Imperial and Pink Imperial.

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F. Dorner & Sons Co., Lafayette, Ind.

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N. Y. Cut Flower Co., 55-57 W. 26th St., New York. J. A. Millang, Mgr.

Carnation Winsor Blooms.

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S. S. Skidelsky, 824 N. 24th St., Phila.

Rose Pink Enchantress.

Harlowarden Greenhouses, Greenport, N. Y.

Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by Glass.

CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
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Harlowarden Greenhouses, Greenport, New York.

Rooted cuttings of October Frost and Fidelity Chrysanthemums. \$5.00 per 100. Frank Shearer & Son, Binghamton, N. Y.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

Chrysanthemums, rooted cuttings, 10,000 Ivory, 5000 Alice Byron, 1000 each Mrs. Whildin, Enguehard, May Mann, C. Touse, Robt. Halliday, Cremo, Glory of Pacific and Tim Eaton. Cash or C. O. D. Wm. Swayne, Kennett Square, Pa., Box 226.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Wm. H. Moon Co., Morrisville, Pa.

American Arborvitae.

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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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CYCLAMEN.

Giant Hybrids transpl., ready for 2 in. and 3-in., \$3.50 100; \$30.00 1000. Plants grown of seed taken from the cream of my well known strain. Christ. Winterich, Cyclamen Specialist; Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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Peacock Dahlia Farms, Atco, N. J.
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V. H. Hallock & Son, Queens, N. Y.
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Dahlias, fine, strong bulbs. Also cannas. Write for price list. O. B. Stevens, Shenandoah, Iowa.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

FERNS

Baur Floral Co., Erie, Pa.
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A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitman.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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The F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Nephrolepis Piersoni Elegantissima.
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FICUS

Baur Floral Co., Erie, Pa.
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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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Koral Mfg. Co., 26 Hawley St., Boston.
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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.

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George H. Cooke, Washington, D. C.

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Gude Bros. Co., 1214 F St., Washington, D. C.

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Samuel Murray, 1017 Broadway, Kansas City, Mo.

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Young & Nugent, 42 W. 28th St., N. Y.

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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.

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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.

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William J. Smyth, Michigan Ave and 31st St., Chicago.

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Jacob Schulz, 644 4th Ave., Louisville, Ky.

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Atlanta Floral Co., Atlanta, Ga.

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David Clarke's Sons, 2139-2141 Broadway, New York.

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W. H. Donohoe, 2 W. 29th St., New York.

Mills, the Florist, Jacksonville, Fla.

Telegraph or mail orders promptly filled. Long distance telephone connections.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.

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A. H. Hews & Co., Cambridge, Mass.

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Hilfinger Bros., Ft. Edward, N. Y.

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FUCHSIAS

Baur Floral Co., Erie, Pa.
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FUNKIA

Charles Hornecker, Springfield, N. J.

Funkia variegata clumps, \$6.00 per 100.

H. Pladeck, Elmhurst, N. Y.

GALAX

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

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Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

GERANIUMS

J. E. Felthousen, Schenectady, N. Y.
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R. Vincent, Jr., & Son, White Marsh, Md.

Geraniums, 3 1/2 in., in bud, well branched and stocky; Ricard, Poitevine, Nutt, Favorite, Viaud and Jaulin, \$6.00 per 100. Hopkins & Hopkins, Chepachet, R. I.

Geraniums in 3 1/2 in. pots, \$7.00 per 100; S. A. Nutt, Jno. Doyle, Double White, etc. J. B. Shurtleff & Son, Revere, Mass.

3,000 S. A. Nutt, 3 in., 3 1/2 in. and 4 in.; \$4.00, \$5.00 and \$6.00 per 100, cash. Fine stock. H. M. Totman, Randolph, Vt.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

GLADIOLI. Groff's Hybrids, Gold Medal and Silver Trophy Strain, Crawford Strain. Farquhar Hybrid seedlings. JOHN H. UMPLEBY, Lake View, N. Y.

GLASS

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., Boston.
American and French Greenhouse Glass.
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GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE BRACKETS

Buxton & Allard, Nashua, N. H.
Economy Greenhouse Bracket.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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Weathered Co., Box 789, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.
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Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.

D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION. Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HANGING BASKETS

Wm. E. Hielscher, 40 Broadway, Detroit, Mich.
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In writing to Advertisers kindly mention Horticulture

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.
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Crowl Fern Co., Millington, Mass.
Fancy and Dagger Ferns.
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The Kervan Co.,
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
Fancy Ferns.
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E. A. Beaven, Evergreen, Ala.
Fadefless Sheet Moss.
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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Strong field grown Hardy Perennials, \$4.00 per 100; Aquilegia, Campanula Carpatica, Campanula Persicifolia Canterbury Bells, Delphinium, Polemonium, Gaillardia, Scotch Pinks, Galega, Chinese Larkspur blue and white, Lychnis Chalcedonica Lychnis Haageana Hybrids, Pyrethrums, Sweet William, Pentstemon and 2 yr. old Mixed Phlox. J. B. Shurtleff & Son, Beverly, Mass.

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Hitchings & Co., 1170 Broadway, N. Y.
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Kroeschell Bros., 35 Erie St., Chicago.
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W. W. Castle, 170 Summer St., Boston.
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Johnston Heating Co., 1133 Br'dway, N. Y.

HORSES

Useful work-horses for florists' spring work; also florists' delivery wagons, good as new. Edward Higgins, 1 West 28th St., New York.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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W. W. Castle, 170 Summer St., Boston.
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HYDRANGEAS.

John C. Hatcher, Amsterdam, N. Y.
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INSECTICIDES.

Nicotinide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Louisville, Ky.
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IVIES

Wesley Wait, Newburgh, N. Y.
English Ivies.

JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.
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KENTIAS

A. Leuthy & Co., Roslindale, Mass.
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LAWN AND CEMETERY VASES

Kramer Bros. Foundry Co., Dayton, Ohio.

LAWN MOWER

Clipper Lawn Mower Co., Dixon, Ill.
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J. Breitmeyer's Sons, Detroit, Mich.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Ave. and 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Atlanta Floral Co., Atlanta, Ga.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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David Clarke's Sons, 2139-2141 Broadway, New York.
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W. H. Donohoe, 2 W. 29th St., New York.
Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LIVISTONIAS

Livistonia Rotundifolia. Well leaved and clean, \$6, \$9, \$12 per doz. J. Roehrs Co., Rutherford, N. J.

LOBELIAS

NEW—NEW—NEW
LOBELIA KATHLEEN MALLARD
Fine double flower; fine, strong 2 1/2-inch pot; \$5.00 per doz.
Quantity limited. Order at once.
J. Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MISCELLANEOUS PLANTS.

	Per 100
2000 2 1/4 in. pots Enchantress Carnation	2.50
3000 2 1/4 in. pots Boston Ferns	3.00
200 3 in. pots Lemon Verbena	6.00
200 3 1/2 in. pots Rose Geraniums	7.00
2000 3 1/2 in. pots Geraniums	7.00
2000 2 1/4 in. pots Glechoma and German Ivy	2.00
1000 3 1/2 in. pots Tomato, "The Comet"	4.00
25,000 strong transplanted Asters, leading sorts, 75c. per 100, \$6.00 per 1000.	
Cohanzie Carnation Greenhouses, New London, Conn.	

MOON VINES

Godfrey Aschmann, 1012 Ontario St., Phila.
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MOSCHOSMAS

Moschesma riparium, a valuable new Christmas flowering plant. Write for descriptive circular and price list. Chas. H. Totty, Madison, N. J.

NIKOTEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.
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NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.
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The Conard & Jones Co., West Grove, Pa.
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The F. E. Conine Nursery Co., Stratford, Conn.
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The Wm. H. Moon Co., Morrisville, Pa.
American Arborvitae.
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Oak Hill Nurseries, 114 Poplar St., Roslindale, Mass.
Berberis Thunbergii.
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Henry A. Dreer, Philadelphia.
Rhododendrons, Boxwood, Edging, Hardy Shrubs and Border Perennials.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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Nursery Stock. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

Elizabeth Nursery Co., Elizabeth, N. J.
Shrubs: Poplars; Roses; Cannas.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Carillo & Baldwin, Secaucus, N. J.
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A. Held, 11-19 William St., New York.
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Selbrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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Jos. A. Manda, 191 Valley Road, W. Orange, N. J.
Orchids, Orchid Baskets, Peat.
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Ordonez, De Nave & Co., Madison, N. J., Box 105.
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A. Leuthy & Co., Roslindale, Mass.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Large, strong transplanted Pansy Plants. Dreer's Royal Exhibition and Vaughan's International, \$1.00 per 100; \$7.50 per 1,000; smaller transplanted, \$5.00 per 1,000. Send for sample and price list of other plants. Frank Shearer & Son, Binghamton, N. Y.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

PHLOXES.

Henry A. Dreer, Philadelphia.
Hardy Perennial Phloxes.
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PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMROSES.

200 Primroses, hardy, large-flowered, yellow, clumps, \$8.00 per 100, cash. Frank J. Geyer, 199 Park Ave., Rochester, N. Y.

RAFFIA

Raffia, prime long fiber, sound and strong, ten cents the pound, nine dollars the hundred pounds; terms cash. A. Rolker & Sons, New York. P. O. Box 759.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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The Conard & Jones Co., West Grove, Pa.
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Bay State Nurseries, No. Abington, Mass.
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Thomas Roland, Nahant, Mass.
Lady Gay Roses.
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John C. Hatcher, Amsterdam, N. Y.
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A. N. Pierson, Cromwell, Conn.
Grafted Roses, Own-Root Beauties.

Low-budded roses, No. 1, \$95.00; No. 1-12, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

Own root roses, 2 years. C. Ramblers, \$7.00; Dorothy Perkins, P. W. and Y. Ramblers, \$5.00; H. P. roses and Baby Ramblers, \$3.00 per 100. Gilbert Costich, Rochester, N. Y.

Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1/4-in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SALVIAS

Salvias, 2 1/2 in., \$1.50 per 100; \$15.00 per 1,000. Achyranthos, \$1.50 per 100; \$15.00 per 1000. S. W. Carey, Florist, Urbana, Ohio.

Salvia splendens, 2 1/2 in., \$2.00 per 100; 3 in., \$3.00 per 100; 4 in., \$6.00 per 100. Krueger Bros., Toledo, O.

Salvia, bright red, 2 1/2 in., \$1.75 per 100. Cottage Floral Co., Little Rock, Ark.

SEEDS

T. J. Grey & Co., 32 So. Market St., Boston.
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Joseph Breck & Sons
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co., 33 Barclay St., N. Y.
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Henry A. Dreer, Philadelphia.
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A. T. Boddington, 342 W. 14th St., N. Y.
Primula Seed.
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H. F. Michell Co., 1017 Market St., Phila.
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James Vick's Sons, Rochester, N. Y.
Aster Seed.
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Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Rickards Bros., 37 E. 19th St., New York.
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Johnson Seed Co., 217 Market St., Phila.
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R. & J. Farquhar & Co., 6-7 So. Market St., Boston.
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Wm. Elliott & Sons, 201 Fulton St., N. Y.
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C. C. Morse & Co., 171-73 Clay St., San Francisco, Calif.
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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.
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I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

Surplus Garden Peas—50 bu. Alaska, \$3.25 per bu.; 40 bu. First and Best, \$2.00 per bu. New crop northern Michigan grown; none better. W. F. Allen, Salisbury, Md.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston.
Pulverized Sheep Manure.
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SHEET MOSS

E. A. Beaven, Evergreen, Ala.
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SMALL FRUIT PLANTS

Dewberry plants, Lucretia and Austin, \$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00 per 1000, \$25.00 per 5000; Turner red raspberry plants, \$6.00 per 1000, \$25.00 per 5000. W. F. Allen, Salisbury, Md.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

Spiraea A. Waterer, 200, 18 to 24 in., \$5.00 per 100. 75 Deutzia Lemoinel, 6c. each. Cash with order. Frank J. Geyer, 199 Park Ave., Rochester, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.
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STRAWBERRY PLANTS

Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

VEGETABLE PLANTS

50,000 small horseradish sets, 25c. per 100; \$2.50 per 1000. S. J. McMichael, 142 Larkin St., Findlay, O.

50,000 large 4-year old Barrs Mammoth Asparagus roots, \$6.00 per 1000; \$25.00 per 5000. (500 will fill a sugar barrel.) Address W. F. Allen, Salisbury, Md.

Now ready to ship, Jersey Wakefield, Winnigstadt, and Market Gardener's Early Cabbage, No. 1 stock, 15c. per 100, \$1.25 per 1000. Tomato plants, Dwarf Champion, Spark's Earliana, Lorillard King of the Earliest, 15c. per 100, \$1.25 per 1000. S. J. McMichael, 142 Larkins St., Findlay, O.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Weathered Co., 46-48 Marion St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Advance Co., Richmond, Ind.
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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VENTILATING MACHINERY. New Model encased, self-rolling gear; Standard Model Open Gear. Lord & Burnham, 1183 Broadway, N. Y.

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Vinca minor (myrtle), \$20.00 and \$30.00 per 1,000. E. K. Mooney, Madeira, O.

Vincas, green, 2 in., \$2.50 per 100; variegated, 2 1/2 in., \$3.00 per 100. Krueger Bros. Toledo, O.

VIOLETS

H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.

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Strong divisions, Campbell and Imperial violets, \$5.60 per 1000. Paul Thompson, West Hartford, Conn.

Young violet plants. Marie Louise, double, from healthy, vigorous stock, ready in June, \$20.00 per 1000. F. R. Snyder, Rhinebeck, N. Y.

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Amer. Horticultural Distributing Co., Martinsburg, W. Va.
Target Brand Weed Killer.

WILD SMILAX

E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 88-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

All standard frames in stock. Special designs made to order in hurry-up time. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

WHOLESALE FLORISTS
Boston

N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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In writing to Advertisers kindly mention Horticulture

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Edward Reid, 1526 Ranstead St., Philadelphia, Pa.
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Pittsburg

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New Offers in This Issue.

BLUE OTAKSA HYDRANGEA.

The F. E. Conine Nursery Co., Straford, Conn.
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BOSTON AND SCOTTII FERNS: ASPARAGUS PL. NANUS.

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A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.
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CATTLEYAS JUST ARRIVED.

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CHRYSANthemUM GOLDEN DOME.

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P. R. Quinlan, Syracuse, N. Y.
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F. E. Palmer, Brookline, Mass.
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do you think of the Buyer's Directory
and Ready Reference Guide of HORTI-
CULTURE? I always look it over be-
fore I do any buying.

WANTS, FOR SALE, ETC.

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WANTED—Single man as assistant rose grower on commercial place. Steady position to good man. Give reference from last place and state wages expected with board. Dean & Co., Little Silver, N. J.

WANTED. A good designer, accustomed to waiting on retail flower trade, industrious and well-recommended. A good position for the right man, Thornton Bros., Lawrence, Mass.

WANTED—Good active young man, experienced in rose growing under glass. Good salary. Address B, care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—Grower who is thoroughly familiar with the growing of Pandanus, Dracaenas and a general and large line of Stove Plants, with commercial experience. A good position for an active man who understands his business. Address, giving reference, Henry A. Dreer, Riverton, N. J.

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POSITION WANTED by experienced landscape gardener, civil engineer and horticulturist of some ten years' experience. Open for engagement with private proprietor or business concern after June 12. References supplied. Address, E. L. Raymond, 9 Felton St., Cambridge, Mass.

We can with pleasure recommend the services of a skilled gardener and orchid grower to any lady or gentleman requiring the services of such a man. Apply Carrillo & Baldwin, Secaucus, N. J.

WANTED—Situation as Head Gardener on private place; capable of taking care of orchids, ferns, palms, roses, etc. Best of references. Address N., care of HORTICULTURE.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

FOR SALE

FOR SALE—Greenhouse Pipe

4-in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

FOR SALE—Second hand 4 in. cast iron pipe for greenhouse heating, five-foot lengths. 10 cents per foot, F. O. B. Exeter Machine Works, Exeter, N. H.

SAVE
your weekly copies of this paper.
DON'T
throw them away.

The contents are always of PERMANENT VALUE and you may need them for reference tomorrow, a year from tomorrow, or still later.

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Please Mention Horticulture**

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CUT FLOWER MARKET REPORTS.

(Continued from page 697).

Cattleyas are less abundant and are selling well. There are quite a few miscellaneous things coming in, such as snap dragon, and in fancy colors some small gladioli which are very nice and sell well. The prospects for this week are more favorable and the business outlook is much better, which is gratifying.

Trade the past week, **TWIN CITIES** has been very fair; while individual sales have not been large, numerous small sales brought business up to a fair standard. The fine spring weather brought purchasers out in large numbers and what spring flowers are on the market, sold to good advantage. Roses and carnations suffered some and large numbers were carried over from one day to another. Roses with all the growers are in full crop and the demand is light, thus having a depressing effect on prices.

On Sunday, the 19th **WASHINGTON** May, this city was visited by a severe storm of rain and wind, accompanied by hail. While the hail stones were not very large, for a few moments they fell very rapidly and were of sufficient size to make the owners of greenhouses feel quite uncomfortable. Since then and at the present writing prices are indispensable. Carnations have taken a drop in price, but are still in demand; forget-me-not, cape jasmine and lilies of the valley are, at present, much called for over the counter. Pond lilies are bearing the cold and beginning to bloom; outdoor roses are showing color. The present cool spell will, in one way, be an advantage; viz., in retarding the roses sufficiently to give a good bloom for Decoration Day, if a rainy season does not come now and spoil them.

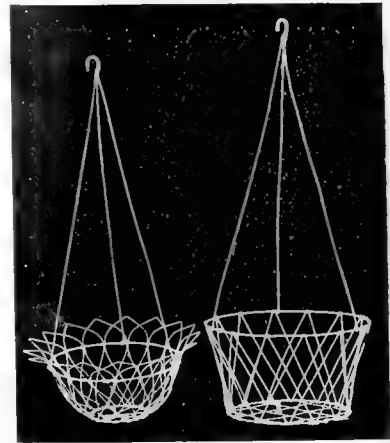
GREENHOUSES BUILDING OR CON-TEMPLATED.

New.

St. Louis, Mo.—Eggeling Floral Company, range of houses.
Champaign, Ill.—State Experiment Station, range of houses.
Sherman, N. Y.—I. Fawcett, two houses.
E. Liverpool, O.—Lake Newell Floral Co., four houses.
Irvington, N. J.—E. W. Fengar, range of houses.
Yellow Springs, O.—Howard Brown, one house.
Stanford, Ky.—John Chrisman, range of houses.

Additions.

Davenport, Ia.—Jas. W. Davis, enlarging.
Davenport, Ia.—Henry Bills, three houses.
Appleton, Wis.—Boelter & Zuehlke, range of houses.
Scarborough, N. Y.—F. R. Pierson Company, house 60x300. Lord & Burnham construction.
Cote des Neiges, P. Q.—C. B. Gordon, conservatory.
Elmhurst, Cal.—Domoto Bros., four rose houses.
Coffeyville, Kas.—Forest Park Floral Co., two houses.
Bellows Falls, Vt.—A. A. Halliday & Son.



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State Quantity wanted and will be pleased to quote prices.

W. E. HIELSCHER
Wire Works
40 Broadway, DETROIT, MICH.

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THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
STRONGEST AND MOST UNIFORM

PRICE 60¢ PER BOX OF 12 LONG SHEETS \$6.50 PER CASE OF 12 BOXES

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LIQUID
FOR SPRAYING OR VAPORIZING

PRICE \$1.50 PER PINT BOTTLE \$13.00 PER CASE OF 10 PINT BOTTLES

NICOTINE MFG. CO. ST. LOUIS MO.

Holds Glass Firmly

See the Point **PEERLESS**

Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DREER,
714 Chestnut St., Phila., Pa.

Greenfield, Mass.—E. A. Richards, extension 30x100.
Adams, Mass.—T. D. Brown, two rose houses.

Crude Texas petroleum has been applied by Superintendent Pettigrew to Commonwealth avenue, Boston, this spring with very satisfactory results, effectually stopping all dust and making the road bed smooth and hard. By count the travel on this road numbers three hundred autos an hour, a pretty severe test of the efficiency of the spraying process.

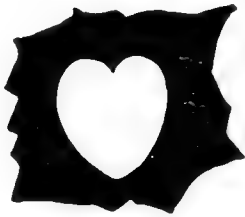
T. D. Brown, Adams, Mass., is to instal a new heating system and add two rose houses to his plant.

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Is Your Name In The Above List? If Not, Why Not?
?

POT MAKERS FOR 140 YEARS

A. H. HEWS & Co. Inc.

CAMBRIDGE, MASS.
KIND EVERY OF WARE FLORIST



Between the All Heart
and the Sun Dried our

Greenhouse Material

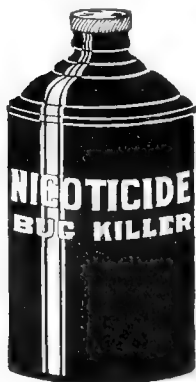
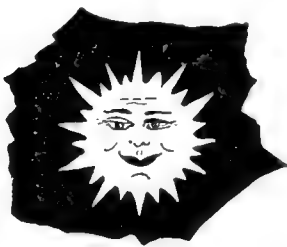
cannot be surpassed. Our workmanship also cannot be excelled. When you get a greenhouse from us you can be sure it is up-to-date in all respects, and that it will be a good house for many years.

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Our visiting friends are heartily welcome to call and see us at our handsome new factory. Transfer from any West Side street car to the S. Western Ave. line and get off at 26th St.



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Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
1500 2 1/2 " " " 5.25	60 8 " " " 3.00
1500 3 " " " 6.00	HAND MADE
1000 3 " " " 5.00	48 9 in. pots in crate \$3.60
800 3 1/2 " " " 5.80	48 10 " " " 4.80
500 4 " " " 4.50	24 11 " " " 3.60
320 5 " " " 4.51	24 12 " " " 4.80
144 6 " " " 3.16	12 14 " " " 4.80
	6 16 " " " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower . . POTS

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28th and M Streets, WASHINGTON, D. C.



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ANCHOR GREENHOUSE HOSE
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protects from frost, insects, etc., and still allows free circulation of air.

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B. HAMMOND, Fishkill-on-Hudson, N. Y.

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Lawn
Mower
Co. DIXON,
ILL.



The Mower

that will kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.

The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-inch Mower \$5; No. 2—15-inch Mower \$6; No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8. Send draft money-order or registered letter. In writing advertisers, mention Horticulture

CYPRESS SASH BARS
82 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

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USE THE BEST. Economy Greenhouse Brackets

are used by leading growers everywhere. Send for price list and descriptive circular.

BUXTON & ALLARD, Dept. A, Nashua, N. H.

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This letter from a well known and prosperous Massachusetts florist should interest you.

MR. W. W. CASTLE,

Leominster, Mass., Apr. 6, 1907.

Dear Sir:—

The Boiler and Circulator installed by you last Fall has given entire satisfaction. I have saved at least twelve tons of coal, and have given Mr. Congdon an order this day for one of the largest Boilers you make to be put in at the Stone property on Nelson St., Leominster. It is the best Boiler-I ever had.

Yours respectfully,

(Signed) J. FULLER.

Watch this space next week. We shall present some more letters equally convincing.

In the meantime write for particulars of our new

Steel Plate Hot Water Boiler

built especially for greenhouse heating. Piping and fitting done according to most approved methods and satisfaction guaranteed. Perfect circulation in all kinds of weather absolutely assured by the use of our

Electric Circulator

W. W. CASTLE, Heating Engineer, - 170 Summer Street, Boston, Mass.

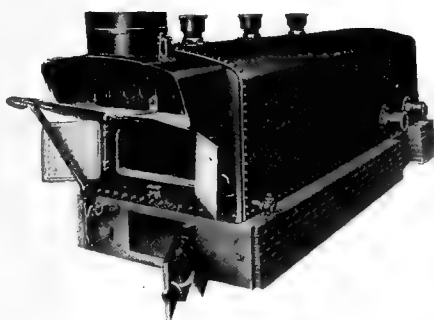
THE KROESCHELL BOILER

is the only perfect Hot Water Boiler. Made in 15 sizes, heating 6000 to 50,000 sq. ft. glass to 60° at 15° below zero.

Prices and Catalogue on application

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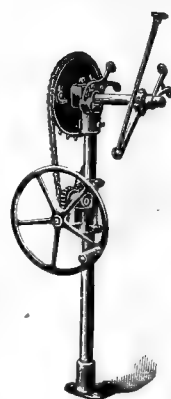
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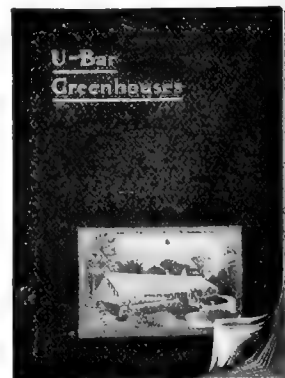
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HORTICULTURE

Vol. V.

JUNE 1, 1907

No. 22



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Oreodoxas

Linnaeus said: "Palms are the princes of the Vegetable Kingdom." Very soon after a person reaches the tropics he realizes the truth of this great statement,



Avenue of Royal Palms—*Oreodoxa regia*.

made so many years ago by this wonderful man, the father of botanists and greatest of classifiers. There are two men that I always like to pay homage to and these are Linnaeus and Columbus. Linnaeus had a terribly hard struggle in his early life. My friend, Blomberg, did not tell us enough about his great countryman. I also thank HORTICULTURE for giving us this timely article on this great man who made this world more pleasant to live in.

Often when on the briny deep I have thought of Columbus and the monstrous difficulties he had to encounter when trying to discover this great country. We are under great obligations to these great men and few of us realize what they have done for us. We do not give enough credit to those great pioneers. We hear much about raising monuments to poets, historians and such like men in our parks and gardens in this country, but very few monuments have been built to this great naturalist.

I am not a lover or yet a believer in monuments in our fine parks and boulevards or yet in our public gardens. Yet if any man deserves such a memorial in any of the above places it is Linnaeus.

I must return to my subject and I still agree with Linnaeus that palms are not only the princes of the vegetable kingdom but to man in the tropics they are certainly the most useful plants and supply almost all his wants.

In the very largest greenhouses that are built palms are not seen and cannot be expected to appear as they do in their native wilds, as some of these plants reach or attain more than one hundred feet in height.

In the West Indies the *Oreodoxas* are wonderfully plentiful and in some parts of the islands they are the most interesting plants in the landscape.

Six species of *Oreodoxa* are known to science. The

most common and the most plentiful are the royal palm (*Oreodoxa regia*) and the cabbage palm (*Oreodoxa oleracea*).

Probably in no part of the West Indies or in South America are to be seen so many of the royal palm, or as the Cubans call it "Palma real," as in Cuba. A person riding on the train from Santiago de Cuba to Havana passes through immense forests of this picturesque palm. The habit of the royal palm is very graceful and exceptionally striking in the landscape. We have nothing in our northern forests that will compare in habit with this singularly beautiful palm, when it is seen growing in the very best conditions. Not only is this palm to be found in the forests and fields, but in every small town and city it is associated with the buildings. In Cuba for long avenues this tree is used more than any other. In riding on the train from the centre of Cuba to Havana one can see perfect avenues miles in length of this graceful palm.

The picture which accompanies this article graphically represents the spacious avenues which this imperial palm makes in Cuba. An avenue like this one when once seen makes an impression that can never be erased from the memory. Not only for avenues is the royal palm used but in the parks and plazas they are superbly beautiful when placed in right positions.

This *Oreodoxa* does not make a good pot plant nor is it as pretty in a young state when planted out. Given perfect condition in ten or fifteen years it makes a handsome specimen.

Palma real is used by the Cubans in many other ways. The huts or houses of the poorer classes in the country are made almost entirely from this palm. The sheathing base of the leaves is used for the sides or the walls of the houses and the other portions of the leaves are used for thatching the roof. In fact I have seen houses where every part of the building was made from this palm. The leaves are also made into coarse matting and into baskets. The fruits or nuts are used for feeding hogs and cattle.

This palm grows in certain localities in Florida, chiefly at "Little and Big Palm Hummocks," east of Cape Romano and also on Elliott's Key.



Cabbage Palms—*Oreodoxa oleracea*.

The cabbage palm (*Oreodoxa oleracea*) is just as beautiful a plant as the above species but cannot be seen in perfection until one goes further south to the

tropical island of Trinidad. This species loves more heat and moisture than the royal palm. This plant is used in Trinidad and South America much in the same way as the Cubans use the royal palm. When in a young state the centre leaves of the young plants are cut and used as a vegetable, hence the name cabbage palm. The accompanying photograph shows a group of these trees growing in the Queen's Park, Port of Spain, Trinidad, taken by the writer about one year and a half ago.

The Porto Rican royal palm is *Roystonea borinquena*. This genus was formerly referred to *Oreodoxa*. The Porto Ricans used this palm very much in the same way as the Cubans use the *Palma real*.

Oreodoxa granatensis is a graceful and beautiful species which in a young state makes a useful pot plant and is a native of Columbia.

Oreodoxa Sancona is also from Central America. It has long graceful leaves with narrow long leaflets, which make it very desirable as a pot plant.

British Horticulture

GARDEN FURNISHING

The developments which have taken place in filling the British gardens with new and improved floral treasures have had their counterpart in the higher standard which has been reached in providing an appropriate artistic setting. The artist has co-operated with the gardener, and with a harmonious blending of their talents some charming pictures have been produced. Terra cotta ware is much in favor amongst gardeners, the pleasing soft tone being preferable to the cold white of artificial stone, whilst the material is equal in durability. Elegant vases, of a classic design, with imposing pedestals, form a splendid embellishment for garden steps or wide terraces. Doulton ware is in favor for garden ornamentation. One notable feature in the manufacture of this ware is that the process of decoration is carried out whilst the pieces are plastic or unbaked, and the ware is completed in one burning. During the last stage of firing in the kilns when the ware is just on the point of vitrification common salt is thrown in the heated chamber. The decomposition of the salt fills the kiln with fumes of salt-vapor, producing on the wares a thin glaze of silicate of soda, the coating being very even and thin. Some ornate samples of this ware were seen in the grounds of the British Commission house at the St. Louis exhibition.

MIRRORS OF TIME

In a chat with the head of a firm of sun-dial makers, I learnt that there is an increasing demand for these garden ornaments. One great charm of the sundial is that in many cases it furnishes an interesting memorial of some noted man or historic place. For instance, lovers of Dickens are able to secure a replica of the sundial which formerly ornamented the grounds of Gladshill place, near Rochester, the great novelist's Kentish home. Another sundial of literary interest is a fac-simile of one belonging to Sir Walter Scott at Abbotsford. The pedestal is of Gothic design, three feet high, with a Greek motto in front, "For the night cometh." The most popular form of sundial is the

antique pattern, formed of Portland stone, usually depicted in pictures of old-world gardens. One of the latest designs is the Empire sundial. This shows the respective times in the principal cities of the globe, and the dial bears the appropriate motto: "The sun is always shining somewhere in the British empire." Another very suitable design is the floral sundial. The most appropriate flowers for each month are engraved between the equation table. The centre of the dial immediately around the gnomon is engraved in the form of a star pointing to 16 compass points. A design lately completed in marble represents the figure of Father Time bearing a globe dial, which he is handing to an infant, typifying the new day. Another elaborate arrangement for a pedestal is a representation of the Three Graces supporting a dial.

GARDENERS' BENEVOLENCE

Arrangements are being made, at the time of writing, for the annual festival of the Royal Gardeners' Orphan Fund. All branches of horticulture are well represented in the list of stewards. The claims of the society will be voiced by the Lord Mayor, Sir W. P. Treloar, the chairman, who is well fitted for this position, seeing the prominent part he has taken in the cause of London's poor crippled children. His philanthropy has gained for him the title of the Children's Alderman. Since its inception in 1887 the receipts of the society have amounted to £34,937 (pounds). Of this total the sum of £16,373 has been expended in assisting in the maintenance and education of the orphans of gardeners. During the same period investments have been made amounting to over £11,000, this providing an annual income which covers all ordinary working expenses, and furnishes a balance to the credit of the fund. The total number of orphans who have been elected to receive the benefits of the fund is over 230. Several orphans are awaiting to receive assistance from the society, and it is hoped to get a substantial sum at the festival to enable the committee to make a suitable provision. Last year at this gathering the sum of £1,000 was obtained. The committee anticipate great things this year, for the work of the society is so well known that there is sure to be a substantial recognition made. We are extremely fortunate in this country in the organized efforts made for those engaged in the gardening profession, to provide for the various misfortunes which arise.

SOME NEW WALL FLOWERS

Wall flowers fill such a useful part in our gardens that it is well an addition has been made to add variety to these old favorites. A new introduction likely to be popular is Sutton's ivory white, a large flowering and compact habited sort, which offers a striking contrast to the darker and richer shades. Messrs. Carter & Co. have two new crimsons and scarlets, these producing imposing flower spikes. Another novelty from the same firm is Carter's Spanish Queen. This is really a multicolored variety, an unexpected cross between the Brompton stock and wall-flower, giving an entirely new departure as regards tint. Other varieties which are likely to be found extensively grown are Ellen Wilmot (bright ruby), Faerie Queene (lemon or pale citron), Eastern Queen (apricot changing to rosy pink), Vulcan (bright crimson), and Cloth of Gold (bright yellow).

W. H. Adsett.

Ornamental Conifers

Continued from page 650

Thuyopsis dolabrata from Japan is an interesting little tree when well grown. It requires a well sheltered situation and a cool loamy moist soil. The shoots are flat and toothed on both sides like a double saw. The tree is broad, pyramidal in shape and one of the nicest ornaments for small lawns. The variegated form seems to be more vigorous than the type. *T. laetevirens* is a dwarf flat-growing form from *dolabrata* making no leader. It has the same toothed foliage but fine, and shorter shoots. *T. Standishii* also known as *Thuya japonica* in some places, is much hardier than the two others. It resembles more a coarse arbor-vitae with longer pendulous shoots and broad pyramidal outline. It will grow in any place where a *thuya* will grow.

BIOTA

Biota orientalis, the Chinese arbor vitae, is a medium sized tree with flat erect shoots and narrow pyramidal outline; it is not very particular about soil, but grows better in sandy loam, and wants to be sheltered from north winds. It is not a strikingly ornamental tree, but different forms of it are of great ornamental value, used in the same way as *thuya*, especially for formal work. The seedlings raised from the different forms of *Biota orientalis* vary much and as a result a number of good little trees are in cultivation. *B. o. compacta* and *aurea* can be taken as two types of departure from the original, the first a pillar, the second of spherical form, but there is a gradation in both of those forms between larger and smaller, more compact or more open, those two keeping the middle; in color they run from yellow to bluish green. Many of these forms are named but the authenticity of the names is often very doubtful as the names are nearly all local. They are all striking on account of the vertical arrangement of their flat branches. A few that differ in appearance are the following: *B. o. aureo-variegata*, narrow pyramidal in form and strongly yellow variegated; nice when young but less so when old. *B. o. decussata*, better known under the name of *Retinospora dubia*, is a very compact pyramidal little tree, divided into a few stems when old, with heather-like foliage, dark green and of a peculiar cream color in winter. *B. o. elegantissima* and *semper-aurescens*, which look much alike, are both of pyramidal outlines, the first one broader, very compact, yellow in color the whole year, but darker in winter. *B. o. filiformis* has a spherical outline with cord-like erect shoots; *filiformis pendula* grows erect and high, with the same cord-like but pendulous shoots. All the Chinese arbor-vitae often lose some of their branches in winter when not well enough protected, but with intelligent clipping they soon fill out again. The hardest of that section is *B. o. Zuccarinii*, a Japanese tree of ovate, conical outline, very compact and dark green in color. It is a fine tree for small lawns and not particular about situation; for New England it is the best of all the biotas.

LIBOCEDRUS

Libocedrus decurrens, sometimes called *Thuya gigantea*, the white cedar from the Pacific coast, is the only one of the genus about hardy here. It grows to a tall narrow tree, well furnished from top to bottom with short flat branches. In Central Park, New York, near Bolivar rock, is one over forty feet in height. This tree wants a good sheltered place to succeed. There is

in cultivation a tree under the name of *T. Graigii* which spreads its branches more, has more reddish bark, and more glossy foliage, but is more tender.

Am. Dutham

The Three Best Roses

It may interest your readers to know which are the three best all-round roses, in the opinion of the members of the general committee of the National Rose Society of England. W. E. Nickerson of Cambridge, Mass., is a member of the National Rose Society of England and last year he offered to the Society the sum of fifteen guineas to be awarded to the raiser of the best all-round rose of recent introduction in each of the three sections, viz., Hybrid Perpetual, Hybrid Tea and Tea. Mr. Nickerson laid down no hard and fast rules but left it to the society to determine by which means the desired end should be attained. "He was anxious simply to encourage the introduction of really fine roses which are well adapted for growing by ordinary amateurs in the open air and if so be, in the United States as well." The matter was left in the hands of the National Rose Society's General Committee who decided that (1) Only varieties sent out in 1900 and in subsequent years should be eligible; (2) That the rewards be decided by ballot; (3) That all members of the general committee be entitled to vote. The ballot took place recently and the result was declared as follows: The best Hybrid Perpetual was declared to be *Frau Karl Druschki*; the best Hybrid Tea *Dean Hole* and the best Tea *Mme. Jules Gravereaux*.

Frau Karl Druschki is already one of the most popular roses here, both for exhibition and for garden decoration. It is undoubtedly the best white rose we have. Not only are the individual flowers remarkable for size and good form but the plants blossom freely throughout a long period. (P. Lambert, Trier, Germany.)

Dean Hole was awarded a gold medal by the National Rose Society when first exhibited. It is one of those roses of such extraordinary coloring that a pen description quite fails to portray its beauty. It is described by the raisers as silvery carmine, shaded with salmon, absolutely distinct and by far the finest of its color. A colored plate of this rose was sent out with the Rose Number of *HORTICULTURE* March 9, 1907. (A. Dickson & Sons, Ltd., Newtownards, Ireland.)

Madame Jules Gravereaux has come to the front within the last year or two and is rapidly becoming popular. It is a strong growing variety and may be used as a pillar rose as it makes a large bush. The flowers are of exquisite form, pale yellow in color, tinged with peach in the centre. (Soupert and Notting, Luxembourg.)

It is of course impossible to say that a certain rose is the best rose for everybody for a variety that does well in one garden may give quite indifferent results in another garden where the conditions are different. Still there are few, if any, roses that have a better claim to the high distinction conferred upon them by the Nickerson awards than the three above mentioned.

Harry H. Thomas

HORTICULTURE

VOL. V

JUNE 1, 1907

NO. 22

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292
 WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; To Canada, \$1.50
 ADVERTISING RATES

Per Inch, 30 inches to page . . . \$1.00.
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times) 5 per cent.; three months (12 times) 10 per cent.;
 six months (26 times) 20 per cent.; one year (52 times) 30 per cent.
 Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass.
 under the Act of Congress of March 3, 1879.

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The gardeners' opportunity The unprecedented demand for reliable foremen and assistants for greenhouse and outside work this season and the difficulty experienced in filling such places with reliable men is a good index of the prosperous condition of horticultural industries generally. No really good steady gardener has idleness forced upon him under present conditions.

Things we should like to see It makes one somewhat envious to read the details of the displays at such an exhibition as that of the Royal Horticultural Society of London described in this issue, with its wealth of new

and rare things. The educational opportunity of such a show, especially to anyone engaged in the horticultural profession, is a rare privilege which in this country we have not yet had provided for us, except in a very limited degree. No time should be lost by those who are preparing for our National Flower Show to arrange for exhibits at that time by these firms abroad.

The advent of the cluster rose in flower work We notice, with pleasure, the appearance of Lady Gray rose as a novelty in the cut flower market. This type of rose, coming in profuse racemes of small blooms, charming as to color and often very fragrant, should receive a ready welcome from every floral decorator who is possessed of good taste and the ability to use it. Evidences are not wanting to indicate that we shall soon have roses of the Lady Gay and Hiawatha type that will be continuous bloomers. As soon as this goal is reached the cluster roses will surely take a place of permanent prominence in the list of florists' staples, standing in the same relationship to flowers of the American Beauty type that the pompon chrysanthemums do to the Japanese blooms in decorative value and, in some measure, side-tracking the small inferior grades of standard varieties which have hitherto served this purpose.

The hardy flowering bulbs We commend to those of our readers who are interested in garden planting and to those who sell to such, the instructive paper on bulbs for bedding purposes by W. N. Craig, which appears in this issue. The lists of tulips, hyacinths and narcissi given therein as well adapted for such work will be found particularly valuable. We can stand much more of gorgeous display and color riot in early spring after the barrenness of the dreary winter months than in the blaze and heat of summer. The hardy bulbs fill in as nothing else can, the long interim between spring opening and the time when garden planting can safely be done. It is no wonder that the public admire the gay display and now, while the enthusiasm is on, is the time to canvass for orders for fall delivery. The planting of tulips, daffodils, chionodoxas, scillas and crocuses can and should be made much more general and extensive than it is. Now is the time to make up your import orders.

The Spring of 1907 The remarkably cold spring of 1907, which has broken all records as to temperature, caused the loss of potatoes and seeds of various kinds, killed off early vegetables, blighted fruit buds, depleted the coal bin, retarded the flower crops and, among other vagaries, treated us to snow on May 26 and a thunder storm on May 27, has yet some compensations to its credit. It has, for instance, stretched out what promised to be a hasty, unsatisfactory nursery season to one of the longest and most favorable planting seasons ever experienced. It has kept society people from flitting to seaside or foreign land, thus lengthening the season for the city florists, entertained the New Yorker with the unheard-of spectacle of apple trees in full bloom on June 1, and given those of us who cannot get vacations reason to be grateful for so much home comfort. Had it only shrivelled the gypsy caterpillars as it has the early "garden sass" we should have been glad to vote an award of merit to the spring of 1907. But it didn't.

ALPINE PLANTS.

The article from our esteemed friend Robert Cameron, on Alpine plants, was of especial interest to me, I being familiar with most of the Alpine plants, and thoroughly acquainted with the Rock Garden in the Royal Botanic, Edinburgh. You will excuse me for stating that an Alpine house is the supply for the Rock Garden; also plants that are of special value and require more care, sometimes called Duplicate House, hence rocks in the Alpine House would seem to me to be out of place.

The Rock Garden in the Botanic, Edinburgh, is a charming spot, full of interest all the year round. The collection is very extensive and is greatly envied by all Alpine lovers. The gems that thrive best are the *Ramondias*, *Haberlea Rhodopense*, *Onosma tauricum*, *O. roseum*, *O. album*. These all thrive best planted on the sides of a dug-out pit: *Morisia hypogaea*, the beautiful little plant of *Chicocoden Soldanelloides*; *Diapensia Lapponica*, *Andromeda Hypnoides*, *Asperula Arcdensis*, *Dianthus Callizonus*, *Campanula Zoysii*, *Phyteuma Comosum*, *Androsacea Arachnoides*, *A. Chumbii*, *Aubrieta Fire-King*, *Gentiana verna*, *G. Bavarica*, *Geranium argenteum*, *Lithospermum prostratum*, *L. Caeneasens*, *Dryas Drummondii*, *Daphne alpestris*, *Sedum Pottii*.

The encrested saxifraga is a very interesting rock plant. They do not seem to be quite so happy as some of the others, though their culture is of the simplest. Many of the nurserymen supply these beautiful gems, and it is a wonder to me that we very seldom come across an extensive rock garden on this side of the Atlantic. Much may be said and done toward constructing a natural rock garden. To be successful the best method is to secure the highly-prized jewels and construct suitable pockets for the individual requirements of each species. Though quite a few owners of large estates are building those clipped, pruned Italian gardens, it seems to me that a well-arranged and judiciously planted rock garden is of more continued interest and more in harmony with many of our large estates.

DAVID MILLER.

"BUTCHERING" THE SHADE TREES

Editor of HORTICULTURE,

I would call your attention to the work of the department of parks in our community. They are butchering the shade trees and, from the way in which they do the work one might think they were short of fire wood. The wounds are bleeding profusely too. But the worst feature in the estimation of the citizens is that the nests of the singing birds, as robins, etc., are destroyed. Why was not this work done in the winter or early spring when the men were idle, or else why can they not wait until the birds are hatched and can take care of themselves? I know there is a law in this State against killing song birds; is there none against destroying their nests? Men who work in the parks must take civil service examination; I believe the commissioner needs it as much as any one else.

Yours respectfully,

BEAULIEU.

Woodhaven, N. Y., May 22, 1907.

RETRIBUTION AND THE EXPRESS COMPANIES.

Shocked and bewildered, the express companies haven't yet recovered from the concussion to nerve centers caused by the decision rendered by Franklin Lane, of the Interstate Commerce Commission, in the matter of certain rates from New Jersey points to New York city.

For the short haul on cut flowers from those points, the United States Express Co. was formerly accustomed to charge 50 cents per 100 pounds. Last July they increased the rate to \$1. Mr. Lane has just made the rate 60 cents.

At various times and places in the past there have been temporary reductions in express charges due to competition among the several companies, but long ago an end was put to that sort of foolishness. This is the first time that considerations relating to the value of the service rather than what the traffic will bear and the companies' ability to utilize the money have entered into the fixing of an insurance charge. Something has been happening in this country. The Roosevelt rate-regulation measure governs these as well as other interstate common carriers.

The curious thing about the express situation is that although the average rates throughout the country are such as to enable them to earn enormous net profits, the stockholders, at least in the case of the United States company, are chafing under a long series of grievances as well as the public. A circular issued in New York this week by a stockholders' committee sets forth that while the dividends declared are only 4 per cent., the net profits of Mr. Platt's company for the last five years are shown by the management's own statement to have ranged from 11 to 18 per cent. and are believed to have been much greater.

The board of directors is a self-perpetuating body, no election to it by the stockholders having been held for more than twenty years, and runs things with a high hand and an eye single to its own advantages.

The stockholders are organizing in an effort to obtain their rights from Senator Platt and his inner ring in the management. The public ought to be engaged in a similar effort. Net profits of 18 per cent. and more show that the company can afford to make a material reduction in its charges and the existence of the interstate commerce commission and the precedent in the cut-flowers case show how this and other express companies may be forced to grant the reduction.—*Detroit Free Press*.

THE CAPE COD CRANBERRY INDUSTRY.

It is estimated that within a decade the production of cranberries on Cape Cod has doubled and the next five years will see the present output increased by at least 100 per cent. Hundreds of men are engaged at present in draining, diking, sanding and planting in the effort to furnish a supply equal to the ever-increasing demand for this popular little fruit. It costs, on an average, about \$400 per acre to properly prepare a cranberry bog and the yield of berries begins in the third or fourth year.

SHRUB CHAT.

The forsythias have been glorious this season. The magnolias also are extremely beautiful as seen at the present time in single specimens here and there on lawns, blooming in profusion.

The Scotch broom *Cytisus scoparius*, looks as though before long it will feel quite at home in the northern States. A clump of broom covered with its yellow flowers is something worth noticing.

Pyrus Japonica is now appearing in its gorgeous mantle of scarlet. A hedge of *Pyrus Japonica* is beautiful while the plants are in full bloom and as a hedge for protection it is always useful. The plants thrive in any kind of soil and endure a very severe climate.

Azalea amoena makes a neat and attractive low hedge. It makes a splendid showing early in the season when planted in quantity in a mass wherever it is able to stand the winter. It does well in Brooklyn, N. Y., and Newport, R. I., but is not reliable around Boston.

Berberis Thunbergii is a beautiful shrub of graceful habit, the leaves are bright green turning in the autumn to tints of yellow, scarlet and crimson. The berries of this shrub are produced in abundance and their coral color helps considerably to make this a charming shrub even in the depths of winter. This berberis is especially effective in groups or as a hedge.

OUR FRONTISPIECE.

The picture of the little greenhouse at the Arnold Arboretum, Boston, and its presiding genius Jackson Dawson, will recall to the minds of many of our readers visits to that unpretentious but always interesting spot where, to the visitor, the hours fly by on swift wing as he scans the boxes of thousands—yes, hundreds of thousands of young seedlings from every mountain and valley of the earth's temperate zones and listens to the fascinating discourse of the man whose life is devotedly spent among these things he loves so well and in the propagation of which he stands without an equal. Far and wide are distributed forests of shrubs and trees which spent their infancy in this little place. The amount of material turned out annually is incredible and is equalled by no establishment, however pretentious, on this continent, very much of it new, rare, and to some extent experimental. And if there's a spark of life left in the seed Jackson Dawson can make it grow, no matter where it came from.

The Jubilee International Exhibition at Mannheim, which opened on May 1, was especially interesting on May 7 when orchids were in competition. The schedule called for collections of orchids in 100 varieties, of botanical orchids, of dendrobiums and of cypripediums. The prize winners included Messrs. Beyrodt of Berlin, Maron of Brunoy, and Hugh Low & Co., of England, whose collection included most of the orchid families in cultivation. English and American perpetual-flowering carnations displayed by Messrs. Low received a gold medal.

NEWS OF THE CLUBS AND SOCIETIES

ROYAL HORTICULTURAL SOCIETY OF LONDON.

At the R. H. S. show, May 14th, the hall was well filled, as not only the usual trade exhibitors were showing but there was a good display from private gardens, herbaceous perennials being predominant. From Mr. Prince, gardener to the Marquis of Salisbury, came very fine forced strawberries, Laxton's Royal Sovereign, and the only other fruit,—if such it may be called,—was a gallon of peas from Sutton & Son, "World's Record", and two more sorts, all of merit, and fit for immediate use, carrying 6 to 7 peas in a pod, while Hobday's giant rhubarb was shown forced by the raiser in good condition and over four feet long, though stout. On entering the hall, Cottage and Darwin tulips proved the leading objects, Peter Barr, Wallace & Co., Alex. Dickson & Sons and Ware putting up grand lots in which the darkest seem to be Frau Angela and Zulu, almost black. Novelties were not many—probably reserved for the grand Temple show on the 28th et seq.

The Veitch Group.

Veitch & Son showed a fine old plant in *Hydrangea arborea*, the flowers of which are produced in small round trusses, and in great profusion, also *H. hortensis* *Mandschurica* and the graceful *paniculata grandiflora*, but their cynosure was tall, densely-flowered trees of the fine double cherry *J. H. Veitch*, while the light and cheerful *Pyrus malus* *Sche-deckeri* was on view as a well-done pyramid of blossom. Forced azaleas made a showy foreground to the group, Anthony Koster and Conseil Ceresole being very fine. They had a neat specimen of the double *A. rosae-flora*, a very old kind, and also of the new *Indica* Baron Ed. de Rothschild.

Alpine Plants.

Mr. James Douglas had a table to himself which he well filled with his specialty alpine and show auriculas, while at the end he had three large plants of the giant forget-me-not (*Myosotidium nobile*) like blue megasias; these having been grown in his cool dry pits, where he does his auriculas. Amos Perry had fine examples of the *Dropmore Auchusa Italica*, which is a great advance on the type in habit and size of flower, also cut pieces of the fine *Euphorbia Wulfeni*, and a vase of *Phlox Canadensis*, Perry's var. On this the tired eye could rest from the view of masses of the fine golden globe flower, *Trollius asiaticus* and *Fortunei* fl. pl. He also showed a fine dwarf and vigorous yellow lupine, *Thermopsis rhomboides*, *Orobis varius* and the brilliant *Geum miniatum*, and two pretty hybrid *Iris* *pumila*, *Princess Blanche* and *Princess Louise*, with a mass of the useful rock plant *Ledum palustre*, *Tiarella cordifolia* and *Pentstemon Menziesii*. I. C. van Tubergen again put up an exhibit of hybrid *Iris regelio cyclus*, all much resembling *Susiana*, the seed parent,

and no gain except from the botanists' point of view.

Some Orchids.

In marked contrast to these was a fine piece of the brilliant *Masdevallia Veitchi*. Orchids were again numerous, Low's cattleyas and laelias, *odontoglossum Rossi* and *Cypripedium grande striatum* standing out well above the rest. A corner was filled with *Salvia splendens* var. *Zurich*, by H. B. May, who also had *verbena* in pots—all of the Miss Willmot type, King of Scarlets being a fine new crimson. Barr's bank of Alpines in perennials contained a good many interesting novelties—*Ramondia Nathalia* and *serbica* being lovely, also *Viola pedata tricolor* and *Primula farinosa*.

Trees and Shrubs.

George Paul put up a splendid lot of cut flowering trees and shrubs. *Amelanchier Asiatica*, a very fine early thing, *Daphniphyllum*, a good evergreen shrub with white daphne-like inflorescence, and *Azalea High Beech*, scarlet, of the Ghent race were grand, while *Corchorus grandiflora* fl. pl. is a superb double kerria. Geo. Bunyard & Co. Maidstone had quite a representative collection of lilacs (*Syringa*) *Lemoinei* fl. pl., *Madam A. Chatenay*, President Grey, Mdm. Casimir Perrier and *Souvenir de Spaethe*, being most notable. *Photomagensis alba* should prove an admirable kind for the florists and would doubtless be quite white from the close atmosphere of the forcing pit. This firm had also a beautiful lot of *Primula Sieboldi* in all varieties.

Some Fine Groups.

J. Veitch & Son again staged *Kalanchoe flammea Kewensis* and *Felt-hamensis* and some lovely *Phyllocacti* *Agatheia Epirus* and *Admiration*, of lovely soft tints, and their *Exacum macranthum* and fine named cannas, besides some excellent carnations, including Gov. Roosevelt, Mrs. H. Burnett, Lady Bountiful and the fine white *La Belle*. Their strain of *Schyzanthus grand. hybrida* is much more highly colored than *Wisetonensis*, and of compact pyramidal habit. A few plants of *Calla Elliottiana* stood up above, while specimens of *Nephrolepis exaltatum superbum* and *Whitmani* made a fine base to the group. Gilbert & Son, specialists in this showy genus, had *Anemone fulgens oculata gigantea*, King of Scarlets and the pure white *The Bride* and *Tulip* (Darwin) *Glow*, brighter than any of the *Gesneriana* species. F. Dutton showed carnations *Robt. Craig*, *Christmas Eve*, *Lieut. Peary*, and *Prosperity* with many other leading kinds. Cheal & Son showed cut branches of *Exochorda grandiflora*, *Rhododendron Snowball*, *Pyrus malus Transcendant* and the pretty early broom *G. praecox*, and *Reuthe Keston* had the rare *Campylocarpum*, and *Embothrium coccineum*, and *Rhododendrons* (*amoe-na*) *Royali* and President Maude. L. R. Russell took a gilt Banksian medal for his group of forced shrubs and trees, which was formed mainly of azaleas, pyrus and cerasus.

THOMAS BUNYARD, F. R. H. S.
May 15, 1907.

ELBERON HORTICULTURAL SOCIETY.

This society held its regular meeting on May 20. The principal feature of the evening was an able paper on *Herbaceous Plants* by W. D. Robertson. An interesting discussion followed. Cultural certificates were awarded to W. D. Robertson for a very fine plant of *Cattleya gigas*, some of the flowers measuring 9 1-2 inches from tip to tip and for a dish of *Asparagus Palmetto*; to A. Bauer for vase of *Gladiolus Augusta*. Other exhibitors were: A. Greib, vase of *Cercis canadensis*, P. Murray, plant *Dendrobium thyrsoideum*, J. Kennedy carnations, B. Wyckoff, *calceolarias*, F. Dettlinger, early vegetables.

The society will hold a rose and strawberry show on June 17. Arrangements are nearly completed for the second summer show on July 24 and 25. Many of the seedsmen and nurserymen have donated prizes for it.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The regular monthly meeting was held on May 25, President McKenzie in the chair. Special premiums for the fall show were received as follows: Mrs. Dana, \$20, in books; Rickards Bros., \$10; W. H. Boune, \$5. B. Davis offered a prize of \$1 for one best rose at the June meeting. A committee was appointed to express the sympathy of the society to the bereaved family of John Bingham. Mr. Bingham's loss will be greatly felt by the society. Secretary Johnston read a most interesting paper on the best time to plant evergreens, which was well discussed in an instructive manner later. James Holloway presented the society with a handsome ballot box. H. Matz exhibited a splendid white seedling carnation; other exhibitors were A. McKenzie, V. Cleres, F. Mense, J. O'Brien.

AMERICAN PEONY SOCIETY.

The fourth annual meeting of the society will be held June 18 and 19, 1907, at the State College of Agriculture, Department of Horticulture, Cornell University, Ithaca, N. Y., and all consignments of flowers for exhibition must be so addressed.

Express charges on all exhibits must be prepaid, and should be so marked on the boxes, as no charges will be paid by the manager of the exhibition.

The regular business meeting will be held at 3 p. m., on the first day, June 18, at which time the society will be welcomed by either President Schurman or Dean Bailey.

An address will be made by Mr. J. E. Coit, of the Horticultural Department, who has had immediate charge of the test collection, and a paper of much value is expected.

Prof. Craig, the chairman of the Nomenclature Committee, will make a report on the progress of the work of that committee, which undoubtedly will be of much interest.

As the test collection is now in its third year a fine opportunity is presented peony growers for studying the

varieties as they grow in the field, as no where else can so many varieties be found growing together under such favorable circumstances as will be found at Ithaca.

Judges of the exhibits will be appointed at a preliminary session held previous to the regular meeting.

LENOX HORTICULTURAL SOCIETY

The regular meeting of the above society was held May 18, President Heeremans in the chair. In order to increase a more lively interest in the society among the assistant gardeners and others, it was unanimously voted to reduce the initiation fee as much as possible. It is expected that this will result in a very considerable increase in membership, as many have expressed a desire to affiliate. The co-operation of all those having the interests of the society and the profession at heart is cordially invited by the officers and members. Several questions taken from the question box created very lively discussion, among the most interesting and instructive being, "What causes hot water to circulate in pipes?" and "Does a moist atmosphere prevent red spider?" Judging from the discussion that followed there would seem to be a large majority of the opinion that a moist atmosphere alone does not prevent red spider. Two very fine vases of Gladioli, Peach Blossom and Blushing Bride, were exhibited by S. Carlquist, for which he was awarded a certificate of merit.

G. H. INSTONE, Secretary.

SOUTHAMPTON HORTICULTURAL SOCIETY.

The regular meeting of the Southampton (N. Y.) Horticultural Society was held Monday, May 13, president Clark in the chair. Seven new members were elected making a total of forty-seven active and five life members. President Clark showed a very fine collection of narcissi, also a vase of *Mertensia virginica*. Wm. Gray, gardener to Judge Russell, read a very interesting paper on melon culture. The question box also brought out the usual interesting discussions. The next regular meeting will be held Monday evening, June 10th.

U. G. AGER.

CLUB AND SOCIETY NOTES.

The Annandale rose show will be held June 12 and 13.

The New Jersey Floricultural Society will hold a rose show on June 7.

The Missouri Horticultural Society will hold a convention at Carrollton, June 4, 5, 6.

The executive committee of the American Rose Society met in New York city on May 28.

The Chicago Horticultural Society have selected the week from October 31 to November 6 for their flower show at the Coliseum.

At the meeting of the New Haven County Horticultural Society, May 22, James Bruce made a striking exhibit of chrysanthemum flowers.

The "outing" committee of the New York Florists' Club are now ready to

go to press with the official program and list of prizes for the annual games. If any one wishes to contribute an additional prize or insert an advertisement he should attend to same immediately.

BEDDING PLANTS.

A paper read before the Gardeners' and Florists' Club of Boston, by Thos. H. Westwood.

Bedding plants are the plants of the masses. They are widely distributed. They are seen in the palace and they adorn the hovel. They bring light with their cheerful coloring. They fill the air with their sweet fragrance. Their reasonable cost brings them within the reach of all mankind. They do not seem to resent the ill treatment that is so often given them, but show forth their glory under great difficulties.

We are not to enter into a discussion on growing bedding plants, but will say in passing to grow this class of plants successfully is just so much "a fine art" as it is to grow many of the more costly plants which receive such skillful treatment from the skilled artists. "Anyone can grow a geranium" is an old saying, as well as a false one. The great height that some of them attain shows us that "anyone" is still with us growing them.

There is most surely a place for the extensive use of these plants which are grown in such abundance. We commend the work of Mrs. Jack Gardner in offering prizes for this class of plants grown in window boxes.

We congratulate the people of North Easton for the work being done there. The children's garden work ought to be encouraged. The care which the child gives to the garden is well spent, both from a moral and mental standpoint and the development of plant life teaches the precious lessons to the observant child.

Here is an avenue of usefulness open to our club and we hope and recommend that some effort will be made along the line of clearing up the front-yards and back-yards of our city and suburbs, perhaps by offering prizes for the best kept yard, or by furnishing plants to those who are not able to pay for them and who wish to improve their environment. The arrangement of bedding plants is a subject about which a great deal may be said, and this seems to be an opportune time to discuss this great question. Strange to say, our amateur friends come in for a great deal less criticism than our professional friends do. The amateur arranges his plants as if they had dropped from the clouds. There seems to be an abandonment about their arrangement which is refreshing.

Let us turn and see what is being done in our ranks and let us discuss some of the bedding that is to be seen in and around Boston. Of course, where there is so much money spent, and where bedding is done on such a large scale, we naturally look to our city gardens. For enlightenment we look for effects that come as near to nature, as one may come to nature along bedding lines. We do not see

enough grouping of plants of one variety. We see a good many plants grouped, that are at variance with each other. *Ficus elastica*, *Celosia cristata*, crotons, euonymus, all in a group are certainly mixing things, and are certainly a poor example at least for educational purposes. We believe that plants of one variety in a group will give a more pleasing effect than a mixture of plants which seem to be antagonistic, the one to the other. We believe there are more geraniums grown for bedding purposes than any other variety of plant grown for bedding, and they are the most difficult to arrange, as it is so easy for the colors to clash, and to place the bed in the poorest situation we can find. The semi-doubles are our favorites on account of the lasting property of their flowers. We use a great many geraniums because we are requested to by our people. Where it is possible we plant a whole avenue or section of our place with one variety. Keep the scarlets and pinks apart. For a dark mixture we give S. A. Nutt, Alphonse Ricard, and Bishop Wood. For a light mixture we use Poitevine, any good white variety and Mme. T. Thebant. We never use variegated varieties, in fact we do not grow them. The canna is the greatest acquisition for this class of work that has been introduced for many years. They give such a tropical effect and are worth growing for their foliage alone, but some of them have very striking flowers. A group of Admiral Dewey makes a very handsome bed. A group of Alphonse Bouvier planted sixty feet apart bringing an occasional plant to the outer line of the bed which takes away any suggestion of formality, and filled in with Vernon begonias makes a superb group.

This leads us up to tropical effects, the grandest of all our bedding, when we know how to arrange such groups. *Musa ensata* makes an imposing subject for tropical beds. We do not use any variegated plants that are very pronounced but depend upon the varied shaped leaves for effect. To plant one of these groups, which must be of good dimensions, better have one good sized group, than many small groups dotted hither and thither. Place a large *musa* near the centre of the bed. Place other specimens widely apart throughout the bed. A few coming to the edge of the bed adds to its grandeur. Around the largest of the musas, group some free growing canna, around others *Cyperus alternifolius*. Large plants of *Dracena indivisa* are planted throughout the bed. *Dracena Braziliensis* with its broad green leaves, *Alocasia arborea* adds strength to the group. *Penisetum* with its beautiful plume and grassy foliage is a good neighbor to the *alocasia*. The dwarf *Cyperus* takes its place towards the outer edge with *Carex Japonica*, a dwarf gress. *Curculigo recurvata* is an interesting plant for this work, planted towards the edge where it stands sentinel over its dwarf friends. During the days when the air is not stirring this plant will sway to and fro like the pendulum of a clock, suggesting that the place is a well regulated one and always on the move.

Crotons, as bedders in the vicinity of Boston, do not develop their bright

favor. We do not think the bright coloring of the croton is suggestive of healthfulness, but instead we are impressed with the fact that nature is having a hard struggle with this child of hers, and in spite of the old dame, the child develops red spots and yellow streaks.

Our Boston crotons outside are demure looking and dignified specimens refusing to put on a gaudy attire which is certainly to their credit. We would not advise going into this class of bedding too extensively. We prefer giving the plants a little more room than they are given in some of our gardens. We do not approve of planting so closely together that the individual is merged into the whole. Give a little room to show forth the habit of the plant. At the same time this adds grace to the arrangement. We use the old *Peristrophe augustifolia* for covering the ground and the bed is finished.

Begonias are becoming very popular as bedders, and are being used in great quantities, the leader in our opinion being *Vesuvius* having a fuchsia like habit. The flowers make a quiet display. Altogether, this is a charming plant for outside work, and cannot be recommended too highly. Our Mr. Sander has a variety of *Erfordii* bearing light pink flowers, a good grower and loves the sunshine. The red *Erfordii* gives great promise. Its foliage takes on a beautiful bronze after being planted out the red flowers making a splendid combination. We predict a great future for the begonia as a bedder.

Carpet bedding is not so popular as of yore, but there is a great deal of it done and there is more of it overdone. Many gardeners make poor work of their design work. It is such a relief to one when he realizes he has not to erect a white elephant or a gate far enough ajar to allow the elephant to pass through. We believe those who do this kind of work are working along lines that are artistic and sublime, rather than the monstrous and profane. We believe there is still some of it done that is apt to cause one to express his opinion in language bordering on the profane even in this enlightened age. How ridiculous to cut out these serpentine lines in the grass, Copley Square being a horrible example a few years ago. Rather have a large bed and the design worked out with the plants. But after all your time and energy is spent, how artificial it all is and how little enjoyment one gets out of all the patience and thought that he must put into such work. I must say it takes painstaking and thoughtful study, to work out a bed of this kind, both on the plan and the execution of the work. It is needless to say that the coleus is rapidly disappearing. A large bed is seldom seen. We have seen *salvia splendens* planted through shrubbery borders. It certainly looked as if the shrubs or the *salvias* were not at home. The *salvias* were certainly out of their element and they looked it. All bedding plants should be kept away from the shrubs. We only mention a few of the bedding plants that we may confine ourselves to the reading of the paper. We might go on indefinitely discussing bedding plants, their use, and abuse.

BULBOUS PLANTS FOR MASSING AND BEDDING.

A Paper read before the Gardeners' and Florists' Club of Boston by W. N. Craig.

During the past few years there has been a wonderful growth in the popularity of hardy bulbous plants not due to any vagary of fashion, but rather to the general spread of a genuine love of flowers. Coming into bloom as they do after the long dreariness of winter they have ever had a charm for poets and lovers of nature. We cannot trot out any of the many familiar quotations which come to mind, but must rather pass on to enumerate some of their good qualities. Unlike the fashionable orchid and the carnation needing glass structures and skilled labor for their culture, these hardy bulbs will thrive in almost any soil and situation. Some of them are a trifle more delicate than others, but a good selection may be made of perfectly iron clad varieties which will succeed with almost any one.

For bedding purposes tulips and hyacinths are the two predominant bulbous plants. The first-named lead in popularity, their comparative cheapness, ease of culture and great color varieties being the chief causes of their occupying a foremost position. Where an extensive system of bedding is carried out in individual beds, massing separate colors in a bed is the most effective, the softer and lighter shades should however, always predominate over the brighter ones, no matter whether the intervening spaces be of gravel or grass; the dark pinks, scarlets, crimsons and purples should be placed farthest away from the house or from the principal observation point. At a distance these higher colors are telling, more so than the softer hues. If a solitary bed on a lawn near a house is planted one solid color it soon becomes monotonous, however, and a mixed arrangement will be in better taste and prove well-satisfying. It should ever be borne in mind that we do not plant always to gratify our own tastes and desires, but rather those whom we serve. Gardeners to be ultimately successful must first consult the wishes and desires of those by whom they are employed; it is in their power to make many suggestions which employers will be glad to receive and also introduce little innovations which will from time to time prove pleasant surprises; but we are digressing from our topic.

A few of the best of the early bedding tulips are: *Chrysolora*, *Proserpine*, *Joost van Vondel* (white), *Keizerkroon*, scarlet and white *Pottebakkers*, *Thomas Moore*, *Pink Beauty*, *Queen of the Netherlands*, *Couleur Cardinal* and *Prince of Austria*. In doubles a few pleasing varieties are *Couronne d'Or*, *Murillo*, the *Tournesols* and *Imperator Rubrorum*. Following the early single and double tulips and excelling them in many respects are the late-flowering varieties in many beautiful colors, the *Bybloemens*, *Bizarres* and such late sorts as *Picotees*, *Gesneriana*, *Bouton d'Or*, *Golden Crown*, *Retroflexa*, *Vitellena*, *Shandon Bells*, and *Elegans*. As a rule these have much longer stems than the early varieties and for cutting are splendid.

While some of these are higher priced than the early tulips we find the bulbs do not deteriorate from year to year in the same ratio.

In addition to their use in solid beds tulips are excellent for mass effects along shrubbery borders. They may be used either in long bands of irregular width or in clumps of fifty or more bulbs each. If used in bands it is best to use the softer shades for this purpose, keeping the darker colors for massing between shrubs a little farther back.

Hyacinths are much higher priced than tulips and while very showy they have never attained any such popularity in America. For formal bedding they are very good, but their extreme stiffness makes them unsuitable for bands or clumps in shrubberies; their stalks, being very brittle, become easily broken causing them to look untidy unless securely staked. When mixed they do not present a pleasing appearance, the colors clashing badly, but when in solid beds with a ground covering of double white daisies or violas, they are very effective; blooming earlier than tulips, they are sometimes used in the same beds with them. If the two should perchance flower together the result is not unsatisfactory. One of the most striking examples of how not to do it was noticed on a Commonwealth avenue lawn the past week. A mixed bed of tulips, hyacinths and narcissi of every imaginable color were flowering together and the result was simply distressing. Single bulbous flowers are in about every case preferable to doubles, and double hyacinths are distinctly inferior to single ones in every way. A few good bedding hyacinths are: Red—*Gertrude*, *Robert Steiger*; white and blush—*Grandeur a Merveille*, *La Grandesse*, *Baroness van Tuyl*; blue—*Charles Dickens*, *Baron von Tuyl*, *Regulus*.

The third important bulbous class we will refer to are the narcissi. A quickened interest in these is due in some measure to the many beautiful introductions of the hybridizers and to other forms secured from the Pyrenees and other homes of the daffodils and the energy of the collectors. In Great Britain the culture of these increases enormously year by year. Where a comparatively few years ago growers had one to ten beds, they now have acres, some of the larger cultivators having 10, 20 to 50 acres devoted to them and marketing millions of flowers and bulbs annually. For cutting they are in season unrivalled, travelling well and lasting long in water. The colors may be less wide than those in tulips, but they embrace the most exquisite shades and harmonies unrivalled for delicacy and beauty by any other flower. Added to this is a perfume delicious and unique, and surely here is a combination strong enough to arouse the enthusiasm of any flower lover.

Narcissi are not used in our public gardens and on private estates for formal bedding as their merits warrant. Their exceeding grace far exceeds that of the tulip and hyacinth. Unlike the two latter bulbs they in nearly all cases improve in flowering qualities year by year and are impervious to showers which will break down hyacinths and damage tulips.

TULIP DISPLAY IN THE SUNKEN GARDENS, FAIRMOUNT PARK, PHILADELPHIA.

From a photograph by a staff photographer of the Philadelphia Press.



Fine as they are in formal beds it is by using them in irregular bands and masses in shrubberies or mixed flower beds, that the best effects are to be had. Once planted they are best left undisturbed for three or four years, when it will be necessary in many cases to lift and replant them. Such varieties as poeticus, all the Leedsii save forms of *Incomparabilis* like Figaro, Sir Watkin, Stella and Cynosure, and that beautiful variety *Barrii Conspicuus*, increase faster than the trumpet types, although the robust Emperor and Empress spread quite rapidly while the magnificent newer varieties like Mme. De Graff and Glory of Leyden have surprising vigor. Bulbs of the last-named this season carried five flowers each, some five inches in diameter. But even where some of the trumpet section do not survive more than two or three years the cost is so low that it is easy to replace them.

For naturalizing in grass land the Leedsii and poeticus section are the most reliable, the last named succeeding specially well on the margins of streams and lakes where the ground is damp. In such a location they grow with wonderful vigor and spread surprisingly. Some of the best narcissi are: Yellow Trumpets—Glory of Leyden, Emperor, Henry Irving, Golden Spur. Bicolor Trumpets—Victoria, Empress, J. B. W. Camm. White Trumpets—Mme. De Graff, Moschatius. *Incomparabilis* section—Sir Watkin, Figaro, Guyther, Beauty. *Barrii* section—Flora Wilson, *Conspicuus*. Leedsii type—Duchess of Westminster, Mrs. Langtry, Minnie Hume, Duchess of Brabant. Poeticus section—ordinary type, *Ornatus* and *Poetarum*.

As the newer English varieties become less expensive and are introduced

here their exceeding beauty will enchant bulb buyers and the day is not far distant when narcissi will be more extensively cultivated than tulips are and will become the most hardy bulb in America.

To lay down a truly artistic garden is about as difficult as arranging the materials for heightening the effect of the landscape but spite of all this the whole idea of bedding out is good and it has done more to make flower lovers and buyers than any other branch of horticulture. We think also that bedding out can be brought out in such a way as to not even displease those who may be continually carping after a close imitation of nature. We all know that natural gardening at this season is far more satisfying and restful to the genuine plant lover than any stiff floral arrangements, no matter how gaudy they may be, but there are multitudes who prefer the latter to the former, and both systems, therefore, should be given their proper places.

The necessarily brief time allotted to us this evening forbids any reference to Spanish or English iris, crocus, snowdrops, chionodoxas, scillas and other bulbous flowers, all of which have a place in every well regulated garden.

In conclusion we would say that the garden without bulbous flowers lacks its brightest jewels. No flowers are so dear to the heart as the class we have briefly referred to. In bulb bedding the flowers do not remain so long as in the case of their summer successors, therefore simpler combinations are more desirable, but even effects a little harsh pass away ere they become nauseating.

Planting in October or early in November, 4-5 inches deep, given a light

mulching of leaves or strong manure after the ground freezes, which is to be removed early in April before growth becomes too far advanced, bulbs will winter well and provide a feast more enchanting and more heart satisfying than can be had from any other class of bedding.

THE NEEDS OF THE NEW YORK BOTANICAL GARDEN.

Efforts are being made by the board of managers of the New York Botanical Garden to obtain special funds to supplement the ordinary income of the institution. These funds may bear in general such personal designations as the contributors may wish to indicate.

Twelve foundations which are greatly desired are specified as follows: Exploration fund, for which \$250,000 is needed; horticultural fund, \$100,000; library fund, \$50,000; conservatory fund, \$50,000; herbarium fund, \$50,000; lecture fund, \$25,000; fund for the illustration of "North American Flora," \$30,000; scholarship funds, several foundations of from \$10,000 to \$25,000; laboratory fund, \$20,000; fund for horticultural prizes, \$10,000; fund for botanical prizes, \$10,000, and research funds, are all set forth in a statement signed by Addison Brown, chairman of the executive committee of the board of managers.

CATALOGUES RECEIVED.

The Julius Roehrs Company, Rutherford, N. J.—A beautifully illustrated catalogue of orchids, palms and other choice exotics, besides ornamental shrubbery, bays, conifers, etc. A colored illustration of *Dendrobium Phalaenopsis* adorns the cover.

A NEW LEADER IN EDUCATION.

The committee on Course of Study and Faculty of the Board of Trustees of the Massachusetts Agricultural College have voted to recommend to the full Board the election of Prof. W. R. Hart, of the Nebraska State Normal School, as Professor of Agricultural Education at the Agricultural College.

Prof. Hart is a man of about fifty years of age and is considered one of the strongest men in the educational work in Nebraska. He spent his boyhood on an Iowa farm and received his education in Iowa Wesleyan University, Iowa State Law School, and the University of Nebraska. He had his master's degree from the latter named institution. He has had teaching experience in country schools and also in high school and normal and college work. He is a member of all the educational associations in Nebraska, has contributed numerous educational articles, and written several monographs on educational topics.

The department to which Prof. Hart has been called is an entirely new one at the Agricultural College and is a very important departure. Prof. Hart will be expected to make a thorough study of all phases of agricultural education and to be of especial help to the teachers, principals, and superintendents of the State in introducing agriculture into the elementary schools and high schools, and in the establishment of agricultural high schools. The Summer School of Agriculture, to be held for the first time during the coming summer, promises to be a great success, and is to be part of the work of this Department of Agricultural education.

It is believed that the Massachusetts Agricultural College is the first institution in the United States to organize this work on so broad a foundation, although many other colleges have introduced various phrases of instruction for those desiring to teach agriculture.

Prof. Hart has extremely complimentary testimonials from such men as Chancellor Andrews of the University of Nebraska, Dr. A. E. Winship of Boston, Dean Bentley of Clark College, Worcester, besides a large list of prominent school men in the State of Nebraska.

He will assume his duties July 1 and be present at the Summer School of Agriculture. He will not take up his regular residence in Amherst, however, until the opening of the new college year. He is married, but has no children.

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WHOLESOME CHESTNUTS.

Now it is planting time, but even if it is do not plant anything outdoors nor advise a customer to plant anything that is not well hardened in preparation for changes of temperature and cool winds which may come yet before summer.

Of the main stock of bedding plants, geraniums are perhaps the easiest to harden and get ready for planting, and they should in consequence be planted about the first. I am not referring to such plants as pansies, which should have been planted a week or two ago, nor to many kinds of annuals or biennials, such as dianthus.

Plant every bed with one kind or variety, and one only. If you have another highly prized variety it can find a place somewhere else without sacrificing the effect of both.

The nearest to approach geraniums in utility are begonias. The Vernon type is exceedingly desirable and showy when planted in separate colors. The true red Vernon, which is the best dwarf bedder for all practical purposes, stands sunlight better than any of the others; in fact, the foliage only assumes the beautiful bronze color for which it is noted when the sun gets at it easily. Tuberous begonias succeed best when planted in partially-shaded situations and in good soil. It will be well also to contrive some light temporary shade to protect them for a few days after planting.

Heliotrope is oftener seen in spaces reserved for cut flower plants than in beds for decoration, but why, I don't know. Its beautiful color and delicate fragrance make it desirable for vases while it lasts, but it does not last long after being cut. In a bed it not only looks as well as most things, but it also perfumes the air as few other things do.

The compact blue lobelias are excellent little plants worth trying in beds by themselves. Fuchsias are grown in larger numbers this year than last, and still the supply is not equal to the demand. Don't forget that this

fall or next spring. The old-fashioned common cannas were all right, and are all right still, but are not in it with those newer sorts with foliage just as good as the others and flowers rivalling the choicest orchids in color and form; they are just right for beautifying any place big or little.

It is too early to plant coleus, achyranthes or alternanthera outdoors, but they should be got in shape as soon as possible. C. Verschaffeltii is the best red coleus for bedding, and Golden Bedder the best yellow. There is a golden Verschaffeltii, but it is not such a desirable variety either in color or form as Golden Bedder.

Bedding stock intended for sale, especially geraniums, should not be left uncovered, particularly at night, as this has a decided tendency to keep them from flowering at this time of the year. Give these plants all the air necessary by lifting the sashes top and bottom, or even removing them during the day, but cover the plants at night.

A great many growers grow English ivy in partially shaded houses; it then stands to reason that it is necessary to protect it for sometime from the full sunlight after it is taken out of such a house. English ivy can be made useful in countless ways. If fine specimens of nephrolepis are wanted, pick out a few of the most promising and put pots or stands under them so that the fronds can steer clear of everything; water carefully and in a few weeks you may have plants to your heart's desire.

Gloxinias do not thrive well when they are fully exposed to sunlight, nor when the glass is densely shaded or when the plants are at a considerable distance from the glass; these plants succeed best when placed near the glass with the glass very thinly shaded. Gloxinias need very careful watering, but will not stand hard syringing.

Don't let the primulas and cinerarias out of your mind; poinsettias are worth all the labor bestowed on them from now; Lorraine begonias are no doubt hard to grow and but few grow them well, but never mind that; go ahead.

PITTSBURG GARDENING NEWS.

The unseasonable weather in April has had disastrous effects upon hardy shrubs and herbaceous plants in and around Pittsburgh. In the more exposed, dried positions privet has survived, but in low lying situations privet and many hardy shrubs are killed to the ground. Herbaceous plants have suffered severely. Out door bulbs have been unsatisfactory; Narcissi were frozen as soon as they opened; tulips have been short and fugacious. The low temperature still continues, retarding summer bedding operations.

One of the finest sights in Pittsburgh is a long border of Phlox divaricata at the Pitcairn place. Mr. R. Smith, the chief gardener, thinks this one of the best subjects for spring flowering. It requires very little care. After flowering, the plants are lifted and laid aside until the busy bedding season has passed, then they are divided and planted in rows in the vegetable garden in well prepared rich soil and planted in their flowering positions late in the fall. Phlox subulata is used as an edging and treated in the same way. The effect is really fine.

Mr. W. Thompson, gardener at the Craig place, Sewickley, has at present some fine plants of Cattleya gigas in flower. He has also some very large plants of Cattleya Skinneri which are almost finished, but which have carried some magnificent heads of flowers.

J. H.

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Mixed, standard varieties, early bloomers, 3 in., 6c.

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Barrowsii, 3, 4 and 5 in., 18 and 35c. **Adiantum Croweanum**, 6 and 7 in., 50 and 75c.

Vinca Major, 3 in., 6c.

Poinsettias, June delivery, 2¼ in., \$5.00 per 100, \$45.00 per 1000; 3 in., \$7.00 per 100, \$65.00 per 1000.

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Asparagus plumosus and Sprengerii, strong plants, 5-inch pots, \$2.00 per doz. Dracaena indivisa, fine stock, \$2.00 per doz. Passiflora coerulea, Pfordii x Mammoth Beauty, a hardy variety from 4-inch pots, \$1.00 per doz; 3-inch pot plants, 75c. per doz. Clematis paniculata, 3-inch pots, 75c. per doz., \$5.00 per 100. Clematis, large-flowering varieties, home grown, two year old plants, \$3.00 per doz. Swainsona alba, 3-inch pots, 75c. per doz., \$5.00 per 100.

Hardy Scotch Pinks, 5 varieties, large clumps from open ground, \$1.00 per doz; nice young plants, \$3.00 per 100. Coleus Verschaffeltii, Golden Bedder, Queen Victoria, Achyranthes Lindenii, Alternantheras best red, yellow and pink, 2½-inch pots, \$2.00 per 100.

Viburnum plicatum, Wistaria sinensis, Variegated Periwinkle, plants from 4-in. pots, \$1.50 per doz., \$10.00 per 100.

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NEWS NOTES.

Snow flakes fell on Boston Common on the evening of May 28.

The business of the Central Greenhouses, Sandusky, O., will be offered for sale on account of the illness of the proprietor, D. J. Mackey.

H. P. Potter, Wilmington, Del., has directed the work of beautifying the grounds around the city hall with plants, an innovation that is attracting much attention.

The Florists' Hall Association completed twenty years of existence on June 1st, 1907. Every claim has been paid and its financial standing is O. K. In addition to a large emergency fund the association has a reserve of over \$17,000.

JOHN F. ESLER, Sec'y.

We learn from Arthur Cowee, the gladiolus specialist of Berlin, N. Y., that although the season is unusually late he will undoubtedly conclude planting his bulbs not more than a week later than ordinary, and the acreage will be practically the same as last year.

The Grand Rapids Greenhouse Co., contemplates repairs and improvements of the Stover property at Glenville, Mich., which they have purchased and will enter into possession of on July 1. The plant at Grand Rapids will be increased by 100,000 feet of glass, and brought up to date in every particular.

The high wind on May 19 blew down the end of one of the largest greenhouses of J. H. Dunlop, Toronto, and a portion of the house about 240 feet collapsed. Two adjoining houses had

been removed to be replaced by a new structure. No damage was done to the stock as it was in readiness to be moved the next day.

Julius Roehrs Company have a new rambler rose which is sure to make a sensation when introduced. The flowers are single, bright pink fading to white at the base of the petals, fragrant, very persistent and borne in enormous trusses. It appears to be also a continuous bloomer for, simultaneous with the blooming, buds of all sizes are in sight at the tips of the new growths. The foliage is very glossy and the plant is hardy. It is yet unnamed.

OBITUARY.

Dr. Joseph D. Mansfield, born March 22, 1817, died in Wakefield, Mass., May 22. He was one of the original members of the Wakefield Horticultural Society.

William O'Reilly, who has made the Cousino Gardens at Loto, Chili, one of the most interesting gardens in the world, died at his home in Parque Cousino on Jan. 7. He was of Irish extraction and received training in the Kew gardens.

William M. Cottle of Waterbury, Ct., aged 65, and little Arthur Gordon Mieliez, the 4-year old son of his foreman, Adolph Mieliez, were struck and instantly killed by a train while driving across the tracks at Brown's crossing on the Watertown branch of the New Haven R. R. Mr. Cottle was a prominent Mason and Odd Fellow and has been in the florist business in Waterbury for the past twelve years.

PERSONAL.

Among recent visitors to New York was Frank H. Houghton, of Houghton & Clark, Boston.

Miss Zana Ariel Shaw, daughter of J. Austin Shaw, and Mr. Percy Noel of the New York Commercial staff, were married on May 24.

Charles Loechner of Yokohama Nursery Company is again able to be at his desk after a long confinement in the New York German Hospital.

A. Schultheis and family will sail for Europe on the Kaiser Wilhelm der Grosse on July 2. Mr. Schultheis has entirely recovered from his severe illness of last season.

MOVEMENTS OF GARDENERS.

J. Ahearn has been appointed gardener for Henry Clews, Newport, R. I., to succeed James Murray.

William Austin, lately assistant to Mr. James Boyd at "Beechwood," Newport, has been appointed gardener for Mr. Moffet at Islip, Long Island.

John Roach, for some years gardener for Mrs. O. H. P. Belmont at Hempstead, Long Island, visited Ireland last year with the intention of staying over there permanently, but our latest information is that he has returned to Hempstead and the employment of Mrs. Belmont.

STILL IN BUSINESS.

Our Montreal note in issue of May 18, stating that Mrs. Graves had retired from business, proves to have been unfounded. Mr. Graves died some two months ago, but his widow is still conducting the business at their greenhouses in Westmount.

NEWS NOTES.

I. E. Coburn, Everett, Mass., has opened a retail store on Bromfield street, Boston.

Miss E. H. Canfield, for many years with J. I. Gurney & Co., has assumed the management of the new store and greenhouse at 1889 Dorchester avenue, Dorchester, Mass.

Fire, caused by the explosion of an oil stove, destroyed the potting shed and connecting corridor of John Young's greenhouse at Bedford, N. Y., on May 24. Loss fully covered by insurance.

One of the most striking floral effects is seen in Small's window, Broadway, New York, this week—a vase of tall tiger lilies of remarkable growth and finish, far excelling anything one sees when this lily is bloomed outdoors. Florists looking for something out of the ordinary line of decorative material should make a note of this for next season. *L. tigrinum* Fortunei splendens is the finest variety.

The new store of W. H. Donohoe, under the new Hotel Seville, 17 East 28th street, New York, is a very handsome and convenient establishment, area 25x67, and a basement room of equal extent. The walls are covered with Tapeastrola, a sort of burlap in dark forest green, and mirrors are freely used. The window floor is of decorated tile and the store floor is of polished quartered oak.

BUSINESS CHANGES.

Mrs. Mary Weisenberger has purchased the business and greenhouses of C. H. Hollied, Maryville, Md.

W. E. Ingalls, Bridgeton, Me., who met with serious loss by fire recently, has offered his greenhouse for sale and will give up the business.

The Lakeside Floral Co., Inc., Houghton, Mich., intends to tear down and remove to Chassell the Lutey greenhouses recently purchased by them.

John Sambrook of Sambrook Bros., Troy, N. Y., has leased the greenhouses of Arthur Cowee, Berlin, N. Y., and Peter J. Shroder is in charge. This range consists of about 20,000 feet. Roses and carnations will be the specialty.

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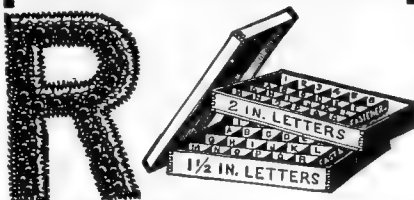
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Lower grades.....	6.00 to 8.00	6.00 to 8.00	3.00 to 5.00	3.00 to 6.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Extra.....	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00	3.00 to 4.00
No. 1 & lw. gr.	3.00 to 4.00	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00
Liberty, Richmond, Fan. & Sp.	6.00 to 10.00	6.00 to 8.00	8.00 to 10.00	8.00 to 12.00
Lower grades.....	3.00 to 5.00	4.00 to 6.00	2.00 to 5.00	2.00 to 6.00
Chatenay, Morgan, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	4.00 to 6.00
Lower grades.....	3.00 to 5.00	4.00 to 6.00	3.00 to 5.00	2.00 to 3.00
Killarney, Wellesley, Fan. & Sp.	7.00 to 8.00	6.00 to 8.00	5.00 to 6.00	6.00 to 8.00
Lower grades.....	3.00 to 5.00	4.00 to 6.00	3.00 to 4.00	2.00 to 4.00
CARNATIONS				
Fancy and Novelties.....	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00
Ordinary.....	2.00 to 3.00	1.50 to 2.00	1.50 to 2.50	2.00 to 3.00
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Sweet Peas.....	.50 to 1.00	.75 to 1.00	.35 to .75	.25 to 1.00
Cattleyas.....	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	35.00 to 60.00
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CUT FLOWER MARKET REPORTS

BOSTON Memorial Day, always the biggest day in the year for the Boston wholesale flower trade, has far outstripped its record this year and reached a volume and value of goods moved never approached by any holiday, under any circumstances, heretofore. This, notwithstanding the unfavorable conditions for securing needed material which, if it could be had, for all demands would swell the total sales to a much greater extent. The usual outdoor flowers of the season are missing. Lilacs are the main reliance in the outdoor class this year; tulips of the late varieties are eagerly bought up; poet's narcissus is about the only other garden flower available; these are in plentiful supply. Stocks and astilbe, especially forced for the occasion, are in the market but in so green a condition as to be of little consequence. Pansies at \$1.50 to \$2.00 a thousand have been disposed of in enormous quantities. Carnations are in active demand and have experienced a considerable stiffening of values but roses have not advanced to any extent and, as might be expected, the lower grades have found the best sale. Growers and wholesalers have been working early and late and Memorial Day, 1907, has certainly made a new high record. People that are usually wholesale sellers at Christmas and other holidays are buyers now.

BUFFALO Business the previous week was good to a certain extent. Flowers were not overplentiful. Beauties have been in good supply together with Richmond, Killarney, Chatenay, Liberty, Bride and Bridesmaid, the latter showing much mildew but the color has been superb. A good lot of ordinary stock was handled and sold better than previous weeks. Carnations of the colored line were a little scarce at times but plenty of white could be obtained. Outdoor stock has not been plentiful. A good portion of the tulips are of poor quality, short stemmed and small flower and show the effects of frost. It looks as if the market will be short on outdoor stock for Memorial Day, as lilacs, deutzia, lily of the valley, peonies, etc., will not be in bloom. Callas and Harristi are scarce and good demands have been had on other flowers. Wood ferns have not been too plentiful while adiantum, Sprengeri and other greens sold well.

COLUMBUS The weather has at last turned warm, and it really seems as if growing conditions were at hand. Stock of all kinds is more plenty, especially carnations, which are always our main-stay. Roses are good, also, and as everything can now be sold at most reasonable rates, the over-the-counter trade with all the craft has been unusually good the past week. There will be an especially large business done for Memorial Day, as indicated by the large number of advance orders that have been placed. The one drawback will be the lack of outdoor stock; the trade for this holiday demands large bunches of flowers and at reasonable rates; this will be difficult to do this year with so little hardy

stock. The seedsmen are very busy with retail counter trade and bedding as well as vegetable plants. Trade in every line is very satisfactory.

DETROIT While business in general is not very brisk, the daily supply at our wholesale houses cannot cope with the demand. The extreme bashfulness of gentle Spring is to be charged up with this general lack of cut flowers. This season just passing has been a great trial for the old principle of supply and demand as price regulators. The growers had an extremely poor cut all through the winter as far as quality is concerned. In looking over their financial harvest though, the result is very gratifying because there never was a glut, but always good prices instead. Our cemeteries will look rather desolate this Decoration Day. The florists attending to this line of work have not been able to do anything worth speaking of on account of weather conditions.

INDIANAPOLIS The long looked for seasonable weather has at last come and placed the market and trade conditions on a better level. The planting branch of the business is now quite active. Trade from the retailer's view was never better at this season of the year. Beauties are fine but not over plentiful. Teas still hold their own as to quality and supply. Carnations are more than plentiful, the quality keeping up well. Abundance of fine sweet peas are on the market. Gladioli, lilacs, irises, and peonies are to be had in limited quantities. Very few outdoor flowers can be counted on for Decoration Day. The market is short of good ferns, while smilax and other greens are equal to demand.

NEW YORK Weather conditions for the past few days have been unprecedented for the season, and the result has been a situation unparalleled in the flower market of this city for Memorial Day. The outdoor material usually so abundant as to spoil any tendency to special activity in florists' flowers is missing, and lilacs and outdoor lily of the valley, ordinarily past and gone at this date, are just beginning to come in. No extraordinary preparations for a demand having been made, this market actually finds itself in worse shape than is the case in other centres usually less favored, but which have access to quantities of stocks, astilbes and other material brought forward in heat for Memorial Day exigencies. Consequently there has been an onslaught on everything from outdoor or indoor sources, and the wholesalers have been cleaned out with surprising rapidity, while orders for thousands upon thousands of carnations have been turned down for lack of goods with which to fill them. Of course this condition cannot last long, but it will require a series of warm days to bring about any great demoralization in the market. One consequence of the cold spring has been the continuance of society people in town to a later date than usual, and the retail business is reported as

excellent all around. A few good violets are still being sent in and one grower at least is cutting a nice crop of chrysanthemums.

PHILADELPHIA Conditions here have greatly improved since last report. Stock has shortened up on account of the dull weather with no diminution in demand, the consequence being a much healthier tone all round, not so much in an increase of prices as in a general cleaning up of arriving shipments, there being no such transactions as twenty thousand Brides at twenty cents a hundred as took place last week. Beauty roses moved well, the outside demand being brisk and keeping the market in healthy condition. Brides moved better, but outside of a clean-up little improvement took place, prices remaining about stationary. Bridesmaids were off both in color and quality. Richmonds went well especially in the shorter grades. Killarneys were in fine shape and among the best sellers in the market. The carnation market is in a very healthy condition and the outlook is for shorter supplies. There will not be nearly enough to go around for Decoration Day trade. Sweet peas are in good demand, but the quality is nothing extra. Lily of the valley is fine and going much better. Gardenias are plentiful and cheap, a great deal of southern stock arriving. The iris market has also been spoiled by southern arrivals. Cattleyas are about the only orchids that cut any figure at present. Peonies are late. Nothing doing this side of Washington. A big loss to the peony men of Washington, Baltimore and Philadelphia. All our supplies that amount to anything are coming from farther south. The combination of dull weather and a late season makes Decoration Week this year exceptional—with a scramble for stock all round both local and shipping.

SAN FRANCISCO There is very little news to tell about San Francisco, except that we are setting our calamities too close together. We were just getting our first breath after the fire and were beginning to settle down to business when the street-car operators, telephone operators, iron workers—in fact, about half of the working classes go on strike for higher wages and shorter hours. Of course every tradesman, especially the florist, is doing very little business. Flowers are not plentiful and would bring good prices if it was not for above mentioned conditions.

TWIN CITIES The cold, disagreeable weather has affected the retail trade to a large extent. One or two bright days during the week gives us a good chance for comparison, but trade this spring will undoubtedly fall short of a year ago, from the retailer's point of view, and what affects the store man must also affect the grower and wholesaler. Spring flowers are practically an unknown commodity. The stock at the present time is about the same we have had all winter. A few early tulips are offered; the de-

Continued on page 730.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending May 25 1907	First Half of Week beginning May 27 1907		Last Half of Week ending May 25 1907	First Half of Week beginning May 27 1907
Roses			Carnations, Ordinary	1.00 to 2.50	1.00 to 2.50
Am. Beauty, fan and sp.	15.00 to 20.00	15.00 to 20.00	Sweet Peas (100 bunches).....	3.00 to 8.00	3.00 to 8.00
" extra.....	8.00 to 10.00	8.00 to 10.00	Cattleyas.....	40.00 to 60.00	40.00 to 60.00
" No. 1.....	5.00 to 8.00	5.00 to 8.00	Lilies.....	6.00 to 8.00	6.00 to 8.00
" Lower grades.....	1.00 to 3.00	1.00 to 3.00	Callas.....	6.00 to 8.00	6.00 to 8.00
Bride, 'Maid, Golden Gate, fan & sp	5.00 to 6.00	5.00 to 6.00	Lily of the Valley.....	.50 to 2.00	.50 to 2.00
" " " Extra.....	3.00 to 5.00	3.00 to 5.00	Gardenias.....	2.00 to 20.00	2.00 to 20.00
" " " No. 1 & lw. gr.	1.50 to 5.00	1.50 to 5.00	Alphonette.....	1.00 to 3.00	1.00 to 3.00
Liberty, Richmond, fancy & special	8.00 to 10.00	8.00 to 10.00	Lilacs (100 bunches).....	4.00 to 20.00	4.00 to 20.00
" lower grades ..	2.00 to 4.00	2.00 to 4.00	Peonies.....	8.00 to 10.00	8.00 to 10.00
Chatenay, Morgan, fancy and spec.	4.00 to 6.00	4.00 to 6.00	Adiantum.....	.50 to 1.00	.50 to 1.00
" lower grades ..	1.00 to 3.00	1.00 to 3.00	" Croweatum.....	1.00 to 1.50	1.00 to 1.50
Killarney, Wellesley, fan. and spec.	5.00 to 8.00	5.00 to 8.00	Smilax.....	10.00 to 15.00	10.00 to 15.00
" lower grades.....	1.50 to 3.00	1.50 to 3.00	Asparagus Plumosus, strings.....	25.00 to 35.00	25.00 to 35.00
Carnations, Fancy and Novelties..	3.00 to 4.00	3.00 to 4.00	" & Spren. (100 bchs.)	15.00 to 25.00	15.00 to 25.00

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\$7.50 Case of 10,000
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per 100

3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
6 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

Write for samples and prices in car load lots.

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NEWS NOTES.

Cut blooms of rose Lady Gay are seen occasionally in the stock of some of the New York retail flower stores and are used with graceful effect in artistic decorative work. The big trusses of pink flowers are very showy.

Traendly & Schenck have completed a substantial addition to their wholesale establishment in West 28th street, New York, by building over the yard in the rear, an area of about 25 feet square. It is well-lighted and ventilated and makes an excellent storage room for flowers.



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Fancy, \$1.75 per 1000; Daggers, \$1.50 per 1000.
Laurel Festooning, best made, 4c, 5c and 6c per yard; once used, always used. Laurel Wreaths, \$3.00 per doz.; cheaper grades if wanted. Southern Smilax, fancy stock, 50-lb. case, \$5.50. Branch Laurel, 35¢ per bunch. Princess Pine, 7c per lb. Brilliant, Bronze or Green Galax, No. 1 stock, 75c per 1000, or \$6.50 per case of 10,000.

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WHOLESALE FLOWER MARKETS. — PER 100. TO DEALERS ONLY.

	CINCINNATI May 13	DETROIT May 20	BUFFALO May 27	PITTSBURG May 27
ROSES				
Am. Beauty, Fan. and Sp.	20.00 to 25.00	20.00 to 25.00	20.00 to 22.00	15.00 to 25.00
Extra	20.00 to 25.00	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00
No. 1	15.00 to 20.00	15.00 to 20.00	8.00 to 15.00	8.00 to 10.00
Lower grades	6.00 to 10.00	4.00 to 12.00	3.00 to 5.00	3.00 to 4.00
Bride, 'Maid, Golden Gate, F. & S.	5.00 to 8.00	6.00 to 8.00	7.00 to 8.00	8.00 to 10.00
Extra	5.00 to 6.00	3.00 to 5.00	6.00 to 7.00	5.00 to 6.00
No. 1 & lw. gr.	3.00 to 4.00	3.00 to 5.00	2.00 to 6.00	1.00 to 4.00
Liberty, Richmond, Fan. & Sp.	4.00 to 8.00	6.00 to 8.00	10.00 to 15.00	8.00 to 12.00
Lower grades	4.00 to 6.00	3.00 to 5.00	3.00 to 10.00	4.00 to 6.00
Chatenay, Morgan, Fan. & Sp.	4.00 to 8.00	6.00 to 8.00	10.00 to 15.00	8.00 to 10.00
Lower grades	4.00 to 6.00	3.00 to 5.00	3.00 to 10.00	4.00 to 6.00
Killarney, Wellesley, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	6.00 to 8.00
Lower grades	3.00 to 5.00	3.00 to 5.00	3.00 to 10.00	1.00 to 4.00
CARNATIONS				
Fancy and Novelties	2.00 to 3.00	3.00 to 4.00	2.50 to 3.00	3.00 to 6.00
Ordinary	1.00 to 2.00	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
MISCELLANEOUS				
Sweet Peas	.50 to .75	.50 to 1.00	.40 to 1.00	.50 to 1.00
Cattleyas	50.00 to 100.00	50.00 to 100.00	50.00 to 100.00	50.00 to 100.00
Tulips, Daffodils	10.00 to 12.00	12.00 to 15.00	8.00 to 12.00	10.00 to 12.00
Lilies	10.00 to 12.00	12.00 to 15.00	8.00 to 12.00	10.00 to 12.00
Callas	8.00 to 10.00	12.00 to 15.00	8.00 to 10.00	8.00 to 12.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Gardenias	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Mignonette	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Lilacs (100 bunches)	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Peonies	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Adiantum	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Smilax	10.00 to 12.50	15.00 to 20.00	15.00 to 20.00	20.00 to 25.00
Asparagus Plumosus, strings	40.00 to 50.00	50.00 to 60.00	40.00 to 50.00	30.00 to 40.00
" & Spreng. (100 bchs.)	20.00 to 25.00	20.00 to 30.00	25.00 to 30.00	40.00 to 50.00

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Asparagus Sprengerii, good vines, 4 in., \$8.00 per 100. Krueger Bros., Toledo, O.

Asparagus plumosus nanus and *Sprengerii*, 2 1-2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2 in., \$3.00; 3 in., \$6.00; 4 in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2 in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

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1 1-2 inch butt, 5 ft. to 7 ft. long, \$10.00 per 1000; 2 inch butt, 8 ft. long, \$15.00 per 1000; 2 1-2 inch butt, 10 to 12 ft. long, \$22.50 per 1000. H. R. Akers, Chatsworth, N. J.

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The E. G. Hill Co., Richmond, Ind.

Rooted cuttings of October Frost and Fidelity Chrysanthemums. \$5.00 per 100. Frank Shearer & Son, Binghamton, N. Y.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

Chrysanthemums, rooted cuttings, 10,000 Ivory, 5000 Alice Byron, 1000 each Mrs. Whildin, Enguehard, May Mann, C. Touset, Robt. Halliday, Cremo, Glory of Pacific and Tim Eaton. Cash or C. O. D. Wm. Swayne, Kennett Square, Pa., Box 226.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Wm. H. Moon Co., Morrisville, Pa.
American Arborvitae.
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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

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CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

Giant Hybrids transpl., ready for 2-in. and 3-in., \$3.50 100; \$30.00 1000. Plants grown of seed taken from the cream of my well known strain. Christ. Winterich, Cyclamen Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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V. H. Hallock & Son, Queens, N. Y.
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R. Vincent, Jr., & Son, White Marsh, Md.

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A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

K. E. Juul, Elizabeth, N. J.
Dracaena Indivisa.

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Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

FERNS

Baur Floral Co., Erie, Pa.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitmani.

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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Nephrolepis Piersoni Elegantissima.
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Wm. C. Smith, 61st and Market Sts., Philadelphia.
Boston and Scottii Ferns.
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FICUS

Baur Floral Co., Erie, Pa.
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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-12 Bowery, New York.

FLORISTS' LETTERS.

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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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Koral Mfg. Co., 26 Hawley St., Boston.
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Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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J. Brettmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.
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William J. Smyth, Michigan Ave and 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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David Clarke's Sons, 2139-2141 Broadway, New York.
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W. H. Donohoe, 2 W. 29th St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

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Hilfinger Bros., Ft. Edward, N. Y.
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FUCHSIAS

Baur Floral Co., Erie, Pa.
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FUNKIA

Funkia variegata clumps, \$6.00 per 100. H. Pladeck, Elmhurst, N. Y.

GALAX

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
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Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

GERANIUMS

J. E. Felthousen, Schenectady, N. Y.
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R. Vincent, Jr., & Son, White Marsh, Md.
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A. G. Lake, Wellesley Hills, Mass.
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Geraniums, 3 1/2 in., in bud, well branched and stocky; Ricard, Poitevine, Nutt, Favorite, Vland and Jaulin, \$6.00 per 100. Hopkins & Hopkins, Chepachet, R. I.

Geraniums in 3 1/2 in. pots, \$7.00 per 100; S. A. Nutt, Jno. Doyle, Double White, etc. J. B. Shurtleff & Son, Revere, Mass.

3,000 S. A. Nutt, 3 in., 3 1/2 in. and 4 in.; \$4.00, \$5.00 and \$6.00 per 100, cash. Fine stock. H. M. Totman, Randolph, Vt.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.
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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

GLASS

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., Boston.
American and French Greenhouse Glass.
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GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE BRACKETS

Buxton & Allard, Nashua, N. H.
Economy Greenhouse Bracket.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.

D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

In writing to Advertisers kindly mention Horticulture

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B.
Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HANGING BASKETS

Wm. E. Hielscher, 40 Broadway, Detroit, Mich.

HARDY FERNS AND SUPPLIES

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Fancy and Dagger Ferns.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
Fancy Ferns.
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E. A. Beaven, Evergreen, Ala.
Fadefless Sheet Moss.
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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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Strong field grown Hardy Perennials, \$4.00 per 100; Aquilegia, Campanula Carpatica, Campanula Persicifolia Canterbury Bells, Delphinium, Polemonium, Gaillardia, Scotch Pinks, Galega, Chinese Larkspur blue and white, Lychnis Chalcedonica, Lychnis Haageana Hybrids, Pyrethrums, Sweet William, Pentstemon and 2 yr. old Mixed Phlox. J. B. Shurtleff & Son, Revere, Mass.

HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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W. W. Castle, 170 Summer St., Boston.
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Johnston Heating Co., 1133 Br'dway, N. Y.

HORSES

Useful work-horses for florists' spring work; also florists' delivery wagons, good as new. Edward Higgins, 1 West 28th St., New York.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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John C. Hatcher, Amsterdam, N. Y.
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The F. E. Conine Nursery Co., Stratford, Conn.

Blue Otaksa Hydrangea.
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The E. G. Hill Co., Richmond, Ind.
Hydrangea Arborescens Grandiflora Alba.

INSECTICIDES.

Nicotide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Louisville, Ky.
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JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.
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A. Leuthy & Co., Roslindale, Mass.
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LAWN AND CEMETERY VASES

Kramer Bros. Foundry Co., Dayton, Ohio.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Ave. and 21st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Atlanta Floral Co., Atlanta, Ga.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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David Clarke's Sons, 2139-2141 Broadway, New York.
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W. H. Donohoe, 2 W. 20th St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LIVISTONIAS

Livistonia Rotundifolia. Well leaved and clean, \$8, \$9, \$12 per doz. J. Roehrs Co., Rutherford, N. J.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MISCELLANEOUS PLANTS.

Per 100
2000 2 1/4 in. pots Enchantress Carnation 2.50
3000 2 1/4 in. pots Boston Ferns..... 3.00
200 3 in. pots Lemon Verbena..... 6.00
200 3 1/2 in. pots Rose Geraniums..... 7.00
2000 3 1/2 in. pots Geraniums..... 7.00
2000 2 1/4 in. pots Glechoma and German Ivy 2.00
1000 3 1/2 in. pots Tomato, "The Comet" 4.00
25,000 strong transplanted Asters, leading sorts, 75c. per 100, \$8.00 per 1000.
Cohanzye Carnation Greenhouses, New London, Conn.

MOON VINES

Godfrey Achmann, 1012 Ontario St., Phila.
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MOSCHOSMAS

Moschosma riparium, a valuable new Christmas flowering plant. Write for descriptive circular and price list. Chas. H. Totty, Madison, N. J.

NIKOTEEEN APHIS PUNK.

Nicotene Mfg. Co., St. Louis, Mo.

NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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Specimen Nursery Stock.
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The Wm. H. Moon Co., Morrisville, Pa.
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Oak Hill Nurseries, 114 Poplar St., Roslindale, Mass.

Berberis Thunbergii.
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Henry A. Dreer, Philadelphia.
Rhododendrons, Boxwood Edging, Hardy Shrubs and Border Perennials.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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Nursery Stock. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Selbrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.

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Jos. A. Manda, 191 Valley Road, W. Orange, N. J.

Orchids, Orchid Baskets, Peat.
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Ordenez, De Nave & Co., Madison, N. J., Box 105.

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John De Buck, College Point, N. Y.
Cattleya Trianae, Gigas, Mendellii, Schroederi.

PALMS

A. Leuthy & Co., Roslindale, Mass.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.

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PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

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PANSY PLANTS.

Large, strong transplanted Pansy Plants. Dreer's Royal Exhibition and Vaughan's International, \$1.00 per 100; \$7.50 per 1,000; smaller transplanted, \$5.00 per 1,000. Send for sample and price list of other plants. Frank Shearer & Son, Binghamton, N. Y.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

PHLOXES.

Henry A. Dreer, Philadelphia.
Hardy Perennial Phloxes.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

RAFFIA

Raffia, prime long fiber, sound and strong, ten cents the pound, nine dollars the hundred pounds; terms cash. A. Rolker & Sons, New York. P. O. Box 759.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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The Conard & Jones Co., West Grove, Pa.
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Thomas Roland, Nahant, Mass.
Lady Gay Roses.
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John C. Hatcher, Amsterdam, N. Y.
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The E. G. Hill Co., Richmond, Ind.

A. N. Pierson, Cromwell, Conn.
Grafted Roses, Own-Root Beauties.

P. R. Quinlan, Syracuse, N. Y.
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Low-budded roses, No. 1, \$95.00; No. 11-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

Roses, Bride, Bridesmaid, Ivory. 2 1-2 in., shipped from 2 in., \$3.00 per 100; \$25.00 per 1000. Wm. B. Sands, Lake Roland, Md.

The beautiful new pink rose, MISS KATE MOULTON is the queen of all pink roses. It's a winner and you should grow it. Price \$30.00 100; 500 \$125.00; 1000 \$200.00; 5000 and upwards \$175 per 1000. Minneapolis Floral Co., Minneapolis, Minn.

Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1-4 in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SALVIAS

Salvias, 2 1-2 in., \$1.50 per 100; \$15.00 per 1,000. S. W. Carey, Florist, Urbana, Ohio.

Salvias, 2 1-2 in., \$1.50 per 100; \$15.00 per 1,000. Achyranthos, \$1.50 per 100; \$15.00 per 1000. S. W. Carey, Florist, Urbana, Ohio.

Salvia splendens, 2 1-2 in., \$2.00 per 100; 3 in., \$3.00 per 100; 4 in., \$6.00 per 100. Krueger Bros., Toledo, O.

SEEDS

T. J. Grey & Co., 32 So. Market St., Boston, Mass.

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Joseph Breck & Sons
51 and 52 N. Market St., Boston, Mass.

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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co., 33 Barclay St., N. Y.
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Henry A. Dreer, Philadelphia.
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A. T. Boddington, 342 W. 14th St., N. Y.
Primula Seed.

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H. F. Michell Co., 1017 Market St., Phila.
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James Vick's Sons, Rochester, N. Y.
Aster Seed.

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12 Stormgade, Copenhagen, Denmark.

Cauliflower and Cabbage Seed.
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Rickards Bros., 37 E. 19th St., New York.
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Johnson Seed Co., 217 Market St., Phila.
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R. & J. Farquhar & Co., 6-7 So. Market St., Boston.

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Wm. Elliott & Sons, 201 Fulton St., N. Y.
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C. C. Morse & Co., 171-73 Clay St., San Francisco, Calif.

H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

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I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

Surplus Garden Peas—50 bu. Alaska, \$3.25 per bu.; 40 bu. First and Best, \$2.00 per bu. New crop northern Michigan grown; none better. W. F. Allen, Salisbury, Md.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston.

Pulverized Sheep Manure.

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SHEET MOSS

E. A. Beaven, Evergreen, Ala.
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SMALL FRUIT PLANTS

Dewberry plants, Lucretia and Austin, \$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00 per 1000, \$25.00 per 5000; Turner red raspberry plants, \$6.00 per 1000, \$25.00 per 5000. W. F. Allen, Salisbury, Md.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.
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STRAWBERRY PLANTS

Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

VEGETABLE PLANTS

50,000 small horseradish sets, 25c. per 100; \$2.50 per 1000. S. J. McMichael, 142 Larkin St., Findlay, O.

50,000 large 4-year old Barrs Mammoth Asparagus roots, \$6.00 per 1000; \$25.00 per 5000. (500 will fill a sugar barrel.) Address W. F. Allen, Salisbury, Md.

2,000,000 strong, healthy cabbage plants; fine roots, All Head Early, Danish Ball-head, Succession, Early Summer, Early Jersey, Wakefield; \$1.00 per 1000; \$4.00 per 5000. F. W. Rochelle, Drawer 20, Chester, N. J.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Weathered Co., 46-48 Marion St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Advance Co., Richmond, Ind.
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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.

The Chicago Lifter.

VENTILATING MACHINERY. New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1133 Broadway, N. Y.

VINCAS

Vincas, green, 2 in., \$2.50 per 100; variegated, 2 1-2 in., \$3.00 per 100. Krueger Bros., Toledo, O.

VIOLETS

H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.

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Young violet plants. Marie Louise, double, from healthy, vigorous stock, ready in June, \$20.00 per 1000. F. R. Snyder, Rhinebeck, N. Y.

WEED KILLER

Amer. Horticultural Distributing Co., Martinsburg, W. Va.

Target Brand Weed Killer.

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WILD SMILAX

E. A. Beaven, Evergreen, Ala.
Southern Smilax.

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WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Heilscher's Wire Works, 38-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

All standard frames in stock. Special designs made to order in hurry-up time. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

WHOLESALE FLORISTS**Boston**

N. F. McCarthy & Co., 84 Hawley St., Boston.

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H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.

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George A. Sutherland Co., 34 Hawley St., Boston.

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Welch Bros., 226 Devonshire St., Boston.
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E. F. Winterson Co., 45-49 Wabash Ave., Chicago.
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Poehlmann Bros. Co., 35 Randolph St., Chicago.
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Detroit

Michigan Cut Flower Exchange, 38 & 40 Broadway.
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Philadelphia

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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Leo Niessen Co., 1209 Arch St., Philadelphia, Pa.
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The S. S. Pennock-Meehan Co., 1608-18 Ludlow St., Philadelphia, Pa.
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Edward Reid, 1528 Ranstead St., Philadelphia, Pa.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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Anton Schultheis, College Point, N. Y.
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GRAFTED BRIDES AND 'MAIDS ON MAPLES, HERBACEOUS PLANTS, ETC.

Bobbink & Atkins, Rutherford, N. J.
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FOREMAN AND PROPAGATOR WANTED.

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GRAFTED BRIDES AND MAIDS ON ENGLISH MANETTI.

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IMPORT FALL BULBS.

James Vick's Sons, Rochester, N. Y.
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NEW IMPORTATIONS, CATTLEYA GIGAS AND LABIATA.

Julius Roehrs Co., Rutherford, N. J.
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ONCIDIUM VARICOSUM ROGERSII.

A. T. Boddington, 342 W. 14th St., New York.
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Leo Niessen Co., 1209 Arch St., Philadelphia.
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ROSE PLANTS.

Benjamin Dorrance, 3 Dorrance Farm, Dorranceton, Pa.
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TRUE BRAZILIAN FANCY-LEAVED CALADIUM; ASPARAGUS, PRIMULA SINENSIS FIMBRIATA AND PALM SEEDS.

H. H. Berger & Co., 70 Warren St., New York.
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BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

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HORTICULTURE needs a wideawake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

WANTED—Single man as assistant rose grower on commercial place. Steady position to good man. Give reference from last place and state wages expected with board. Dean & Co., Little Silver, N. J.

WANTED—Good active young man, experienced in rose growing under glass. Good salary. Address B, care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—Grower who is thoroughly familiar with the growing of Pandanus, Dracaenas and a general and large line of Stove Plants, with commercial experience. A good position for an active man who understands his business. Address, giving reference, Henry A. Dreer, Riverton, N. J.

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We can with pleasure recommend the services of a skilled gardener and orchid grower to any lady or gentleman requiring the services of such a man. Apply Carrillo & Baldwin, Secaucus, N. J.

WANTED—Situation as Head Gardener on private place; capable of taking care of orchids, ferns, palms, roses, etc. Best of references. Address N., care of HORTICULTURE.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

FOR SALE

FOR SALE—Greenhouse Pipe

4-in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 36 Erie St., Chicago.

FOR SALE—Second hand 4 in. cast iron pipe for greenhouse heating. five-foot lengths. 10 cents per foot, F. O. B. Exeter Machine Works, Exeter, N. H.

PRICES QUOTED IN THESE COLUMNS ARE FOR DEALERS ONLY When Writing to Advertisers Please Mention Horticulture

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mand for them is so slight that it hardly pays to handle them. Roses and carnations are equal to the demand, there being no surpluses. Decoration Day business from present indications will be heavy, especially from outside towns. The appropriation in the cities has been cut considerably in comparison with former years; a much heavier trade can therefore be expected from citizens in general.

As a result of the sudden changes in which cold, rainy days predominate, outside plant life can only struggle for its existence. Bloom is out of the question—that is, marketable bloom. Owing to these conditions carnations are holding their own in both quality and price. Sweet peas are also fine and sell readily. Peonies, which are usually gone at this time, are just beginning to bloom and are of very inferior quality. Outside roses, in the more sheltered places are producing some bloom, but there will be a most distressing shortage for Decoration Day.

GREENHOUSES BUILDING OR PROJECTED.

New.

Stamford, Ct.—George Boles, one house.
Youngstown, O.—J. E. Milliken, one house.

Additions.

Holliston, Mass.—J. E. Long, additions.
Grand Rapids, Mich.—Grand Rapids Greenhouse Co., range of vegetable houses.
Wilmington, Del.—Edward Hawke placed contract with Lord & Burnham Co., through D. T. Connor, for extension 16x28 and one new house 21x89.



The Best Bug Killer and Bloom Saver

For PROOF

Write to

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LOUISVILLE, KY.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

ANCHOR GREENHOUSE HOSE

on your next order.

Plant Bed Cloth

protects from frost, insects, etc., and still allows free circulation of air.

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18 Cliff Street, New York



REG. U. S. PAT. OFF.

Weed Killer

is a solution of chemicals designed to destroy plant life and undesirable vegetation of all kinds.

'TIS GUARANTEED

to keep paths, roads, tennis courts and brick walks free from all growth. One gallon makes 50 gallons of treating liquid.

PRICES.

1 gal., \$1.00. 10 gal., \$ 7.50
5 gal., \$4.00. 25 gal., \$18.75
50 gal. barrel, \$35.00

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DISTRIBUTING CO.

Martinsburg - - - W. Va.
Write for catalog and list of testimonials.

Clipper Lawn Mower Co. DIXON, ILL.



The Mower

that will kill all the weeds in your lawn. If you keep the weeds cut so they do not get to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.

The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-inch Mower \$5; No. 2—15-inch Mower \$6; No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8. Send draft money-order or registered letter.

In writing advertisers, mention Horticulture



Economy Greenhouse Brackets

are used by leading growers everywhere. Send for price list and descriptive circular.

BUXTON & ALLARD, Dept. A, Nashua, N. H.

?
Is Your Name In The Above List? If Not, Why Not?
?

WHICH ARE YOU WATCHING the bung hole or the spigot? If anyone should point out to you that while you were watching so carefully that half pint coming out of the spigot, three gallons were pouring out of the bung hole—you would stop the leak at once, that's sure. Now tell us where is the difference in buying an all-cypress house with a price that sounds cheap when in a year or two you begin to put your profits into repairs instead of in the bank? There's no house built that will grow such plants as our Iron Frame House, or that is as downright cheap in the end. We want you to take this argument up by mail—we'll answer your letter that very day.

HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.

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The Kramer Bros. Fdy. Co.

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Write to Department 3 for Catalog and Prices if Interested.

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Has met with great success, being the cheapest and best on the market; simple in make; powerful in operation. Less effort to work than any other machine.

HUNDREDS IN USE GIVING ENTIRE SATISFACTION.

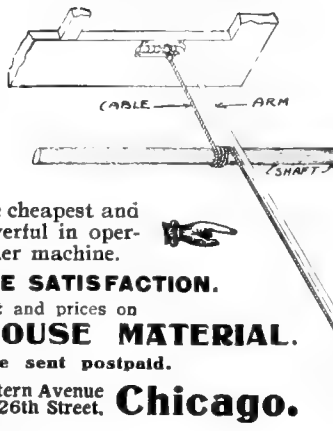
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ALL KINDS OF GREENHOUSE MATERIAL.

Our large illustrated catalogue sent postpaid.

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Our visiting friends are heartily welcome to call and see our handsome new factory. Transfer to S. Western Ave. from any West Side street car and get off at 26th St.



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Packed in small crates, easy to handle.

Price per crate	Price per crate
1500 2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20
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1500 2 1/2 " " " 6.00	48 9 in. pots in crate \$3.60
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Send pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N.Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower.. POTS

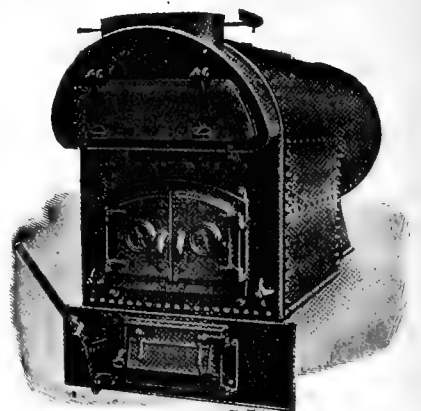
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money

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STEEL RETURN TUBULAR Steam BOILERS Water



What F. R. Pierson says:

JOHNSTON HEATING CO., New York City.
Gentlemen:—The internally fired steel boilers which you installed last fall are giving us great satisfaction. They heat very quickly and are very economical. We are exceedingly well pleased with them and they have more than met our expectations.—Very truly yours,
F. R. PIERSON CO.

JOHNSTON HEATING CO.
1133 Broadway, NEW YORK CITY
WRITE FOR CATALOG AND PRICES

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Formerly Superintendent for Weathered.

Greenhouse Builder

Private or Commercial. Iron or Wood.

Estimates Furnished.

Factory and Yards; Fulton and Rose Ave.
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Here's Another One

This letter from a well known and prosperous Massachusetts florist should interest you.

MR. W. W. CASTLE,
Boston, Mass.

Waverley, Mass., Apr. 24, 1907.

Dear Sir:—

It is a pleasure to recommend your Circulator for the very efficient work it does for me.

I have two greenhouses each 200 ft. long piped for steam with 1½ in. pipes, and can operate them perfectly with hot water by using the Circulator; in a very short time it brings the returns nearly as hot as the flows. As I have two of the Circulators in use under different conditions, I am well able to judge of the work they are capable of doing, and would not like to part with either of them.

Yours truly,

(Signed) WILLIAM W. EDGAR.

Watch this space next week. We shall present some more letters equally convincing.

In the meantime write for particulars of our new

Steel Plate Hot Water Boiler

built especially for greenhouse heating. Piping and fitting done according to most approved methods and satisfaction guaranteed. Perfect circulation in all kinds of weather absolutely assured by the use of our

Electric Circulator

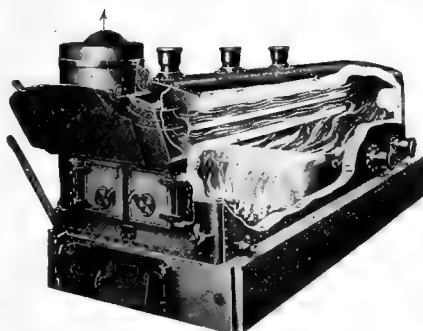
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THE KROESCHELL BOILER

the only perfect Hot Water Boiler. Made in 15 sizes, heating 6000 to 50,000 sq. ft. glass to 60° at 15° below zero.

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GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.

117 E. Blackhawk St., CHICAGO

CYPRESS SASH BARS 82 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

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NEPONSET, BOSTON, MASS.

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YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.

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on every page of this paper.

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GREENHOUSE BUILDING AND HEATING

Send for Catalogue

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N. Y.

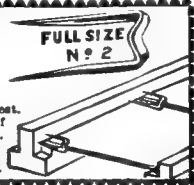
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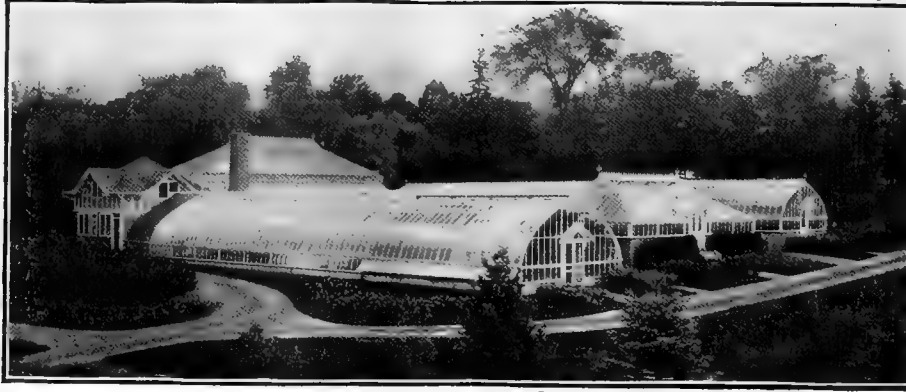


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Firmly**
See the Point at
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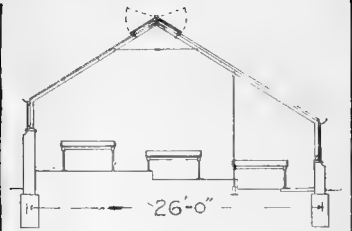
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Nº 2

Glassting Points are the best.
No rights or lefts. Box of
1,000 points 75 cts. postpaid.
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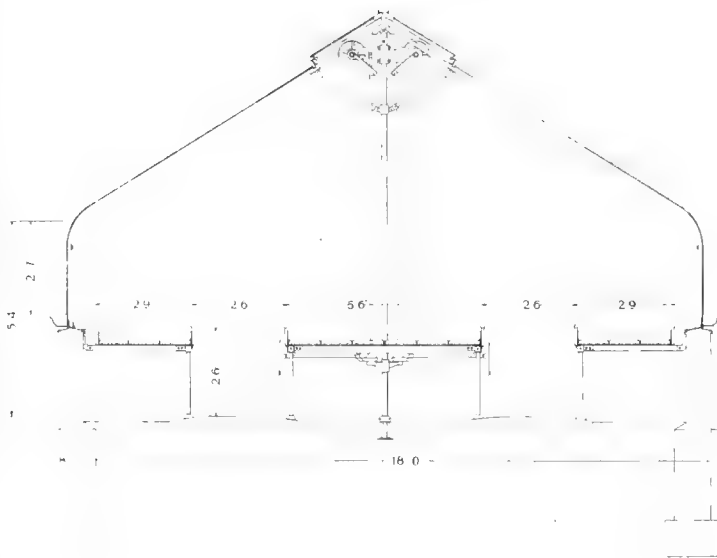


RANGE AT POMFRET CENTER, CONN.



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HORTICULTURE

Vol. V. JUNE 8 1907 No. 23



RHODODENDRONS AT DANA ISLAND, GREEN COVE, N. Y.

Phot. by T. F. Johnston

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LANDSCAPE GARDENER
and
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RHODODENDRON PINK PEARL.

RAISED BY JOHN WATERER & SONS, Ltd., BAGSHOT, ENGLAND.

American Rhododendrons

OVERPLANTING OF *R. MAXIMUM*

While in the United States last autumn, on a business trip, I visited a number of nurseries, and also a considerable variety of private and public gardens. I have naturally been very interested in the use of the plant with which I am most closely associated, viz., the rhododendron. I was particularly struck with the large quantities of the native variety, *R. maximum*, that are being planted, and it has occurred to me to ask if this is altogether a wise step. The great question in front of the man planting rhododendrons is, of course, that of hardiness, and without doubt the variety *maximum* has much to recommend it in this respect, but on the other hand it has been amply demonstrated that certain of the hybrids, and more particularly those which have their origin either from *catawbiense* or *maximum* are, if planted with a due regard to certain conditions, of sufficient hardiness to warrant their use, and, while not condemning *maximum*, it must be borne in mind that the latter has practically only one shade of color, and if used indiscriminately, is likely to become as monotonous as the *Rhododendron ponticum* in England, which really, except in isolated cases, has only the merit of cheapness to recommend it, and, where used without the addition of the hybrids giving color, is of no advantage whatever in garden effect. It is this point which strikes me so much in many American gardens, which I have seen—the use of *Rhododendron maximum* exclusively, where such splendid effects of color could be got with the addition of a certain number of hybrids in groups.

SELECTING A FAVORABLE POSITION

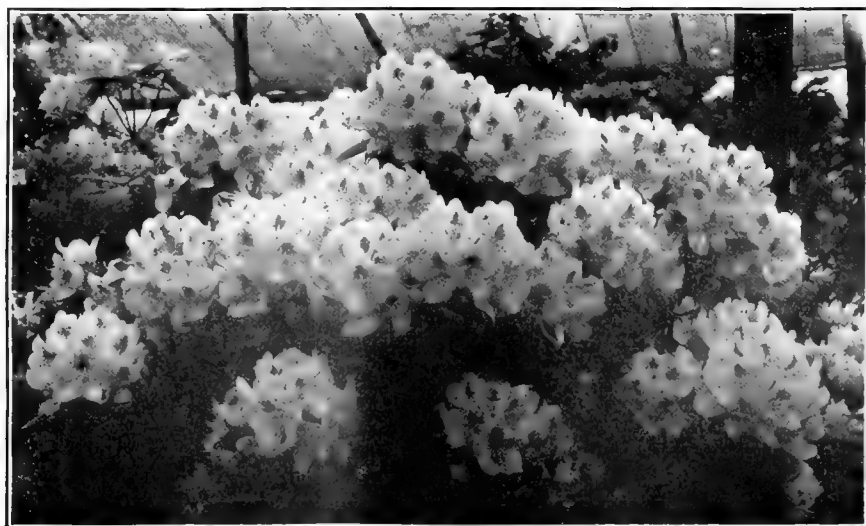
In America where the climatic conditions are much more *in extremis* than in England, it is apparent that great care must be taken in selecting a position suitable



Field Culture of Rhododendrons.

for rhododendrons, and in my opinion it should be chosen so that, always bearing in mind to avoid exposure to wind, and more particularly to draughts of any kind, they should have a northern aspect. This may seem contradictory for any shrub which may be classed as delicate, but my experience tells me that when given a northern exposure, the tendency is for the plant to remain for a longer period in a dormant condition, in which state the rhododendron and many other shrubs are perfectly hardy and will not suffer so much as when planted in a warm situation which induces a rising of the sap and an inclination to precocious growth before the night temperatures have ceased to be nearly as low as in midwinter. Again, a position which ensures shade, not, however, too dense, should be chosen, and in any case the early morning sun must be avoided as the beds of rhododendrons, when subjected to a low temperature of the air and with the sun melting one side of the bed while the other remains frozen, are very perishable and, even if the foliage of the plants remains uninjured under these conditions, the flower will be lost and consequently they will have no greater value than any other evergreen.

Another point which it is most desirable to emphasize is that, naturally, the rhododendron is an undergrowth as a general rule, and subsists not only on its own decaying foliage, but on other vegetable refuse such as the foliage of forest trees, and consequently in garden use proper care should be taken in the first place to see that it has such food as peat or leaf mould or some good fibrous matter to subsist on in accordance with natural conditions; and, secondly, that when established, such food should be supplied to plants from time to



Rhododendron Gomer Waterer.

time as a surface dressing, and, in America where such hot spells are so common, a moulding of leaves and decayed manure which will keep the roots from scorching, and, in winter, will serve to protect them from extremely low temperatures.

CHOICE OF VARIETIES

As regards what varieties can be used with comparative safety, I have great faith in the experience which certain kinds have had and withstood for a period of years, at the Arnold Arboretum. This more especially applies to Boston and the New England section. In other parts, viz., around New York and perhaps more so in Philadelphia, a considerable number of other kinds have been found to stand perfectly well. I am somewhat loth to publish the names of certain kinds, from obvious reasons, but I think I can safely give such names as *Album Elegans*, *Everestianum*, *Charles Dickens*, *H. W. Sargent*, and a few others, as having stood for so many seasons as to be practically safe, although, no doubt, in common with many other evergreens, such as the mountain laurel (*Kalmia latifolia*), and even the hemlock and white pine, they were found to have suffered during the extremely severe weather experienced some three years ago in the States. This should not, in my opinion, deter people from planting again, as the damage done that season proved to be, in many cases, only temporary and the plants recovered during the ensuing summer.

I have noticed, to my great regret, in many places I have visited, that where hybrids have been planted, although a fair percentage of the proper hardy varieties are to be found, yet there is a quite large proportion of tender varieties which, in America, are absolutely useless except to be treated as tender plants and, as such, to be protected in the winter, and consequently after even an ordinary season, without any great extreme of temperature, it is found that many have been injured, the result being that the planter is naturally dissatisfied, and at once comes to the conclusion that all rhododendrons are unreliable for garden work, and so either plants some other flowering shrubs in their place, or leaves a blank space. Now, this is a great

pity, and I attribute it to the fact that the really hardy varieties being somewhat scarce, some nurserymen, with rather elastic consciences will accept and execute an order, even incorrectly, rather than admit inability to supply. The intending planter should be most careful to ask for, and see that he gets those kinds only that have proved to be thoroughly reliable, and also when he has them to see they are planted in the proper position, and I feel sure that under these circumstances the use of the hardy rhododendron with its double effect of flower and evergreen foliage is only just beginning.

A few words as to the tender varieties: there are among the hybrids many very lovely varieties, which, even if they are not suited for planting out permanently, are so fine as to warrant their use in other ways with great effect, such as in tubs and sheltered in the winter. This is done with bay trees in order to give certain effects, and why should it not be done with rhododendrons to give another effect? Large bushes or standards can be procured, and I am of opinion that with a rational treatment they would be found very easy plants to handle, and in that way the more beautiful hybrids can be seen and used in American gardens. Other kinds as, for instance, the *R. Pink Pearl* which, when first shown in England created almost a sensation in the horticultural world, or the variety *Gomer Waterer* may be used to very great advantage as pot plants, and fully deserve to be known as well in America as with us. The subject of rhododendrons is a very large one, and I do not propose to go into any further sides of it, but I shall look forward to the future greater use of this beautiful evergreen in American gardens and hope that my views may turn out to be correct. I feel sure, if the planter insists upon being supplied with the really hardy varieties, he will not be disappointed, and more than this he will be conferring benefits upon the lovers of gardens generally.

Gomer Waterer

American Nursery, Bagshot, England.

The Rhododendron

SOME RHODODENDRON HISTORY

John Wilmore of Oldford near Birmingham, England, who was a most enthusiastic amateur horticulturist some seventy years ago, delighted in making experiments with various species of plants in order to produce new and improved varieties. He turned his attention particularly to those families which were the most difficult to hybridize, as for instance the ericas; of these he succeeded in raising the one which bears his name, "*Wilmoreana*" which is a favorite at the present day. He also used his talents on the rhododendron and assisted my father in his efforts in the same direction with this noble evergreen.

Taking the Indian species, *R. arboreum*, it was used to pollinize several other species which were known to be quite hardy in Great Britain, especially *Catawbiense*. The flowers of *arboreum* are rich crimson with black, chocolate and red markings in the throat of the flower. The object aimed at was to get these colors and pencilings into varieties which would stand the British climate. This could only be effected by raising thousands of seedlings and making selections of such as promised the desired qualities, namely, various tints of

the carmine and rose of the *arboreum* to blend with, or supplant the lilac of the *Catawbiense*, but combined with the habit and growth of the latter. It was found that if the *arboreum* was pollinized with the *Catawbiense* the seedlings were not hardy, but when the *Catawbiense* was pollinized by the *arboreum* the habit of the female parent was maintained, but except in rare cases the color of the flower was not materially changed.

DIFFICULTIES IN THE WAY OF SUCCESSFUL RHODODENDRON HYBRIDIZING

Crossing and raising seedling rhododendrons is a work of years and is full of interest. The first difficulty, in the case of using the early and late varieties as parents, is to get them in bloom at the same time; the *arboreum* being the native of a warm climate requires the protection of a hot house, and therefore flowers much before the hardy varieties; to force the hardy ones does not fully answer the purpose of the hybridizer, because forcing weakens the growth to some extent, and plants thus treated do not seed so vigorously. To retard the *arboreum* seems the most practical, but this is also attended with some trouble; it can be effected, however, by keep-

ing the plants in the shade and in the coolest part of the house, and then removing them into the greater heat and sunlight when the flowers are required. Another difficulty is that the seeds are so small as to require great care in the handling, and will only germinate when subjected to a certain degree of moisture and moderately cool temperature; sown close to the surface and shaded from the hot sun, very finely pulverized peat soil being used on which to sow the seed.

SOME INTERESTING EXPERIMENTS

Some experiments were also made in crossing the ponticum, a much more free growing species from Asia, which is hardy in England and used there very extensively for under-cover in pheasant preserves, but not much progress was made with the ponticums, the flowers being loose and small, and the hybrids not perfectly hardy. Several varieties were produced, namely, one called Victoria, a deep claret color, p. roseum, deep rose, and some others. Another parent was *R. maximum*, the species indigenous to New England, and by mixing this with *Catawbiense* some fine, light-colored sorts were produced such as *album elegans*, *album grandiflorum* and others, and these being again recrossed, some fine light-colored sorts have resulted. *R. Javanicum*, a species with glossy foliage and golden yellow flowers was used to try to infuse their tint into the hardy varieties, but does not appear to have been successful.

Once the efforts to acquire new and improved varieties were successful it was much easier to add to their number by crossing them with each other, therefore many fine ones are annually announced, but nevertheless some of the original seedlings hold their own and have scarcely been surpassed.

When some of the choice *Catawbiense* seedlings were imported to this country the first specimens were killed the first winter; this may be accounted for by the fact that they were grafted upon ponticum stocks, which, although it survives the cold of the old world succumbs to it in the new, especially when they are not worked so low as to permit of the stock being buried in the soil.

TREATMENT REQUIRED BY THE RHODODENDRON

It is gratifying to remark that the rhododendron is growing in popularity, and new and superior hardy varieties are increasing in number, while the older ones are not to be despised. This queen of evergreen flowering shrubs accommodates herself to a variety of soils but thrives best in peat earth or any decayed vegetable matter. Potash and carbonic acid she delights in, but nitrogen, in too undiluted a state, or in too large a proportion, is very injurious. I once had a batch of seedlings I was particularly anxious to push along, so I gave the

soil a dressing of stable manure, without due consideration, and killed every one.

Do not add animal manure to the soil nor mulch the beds with stable litter; a mulching, before the bushes are large enough to cover the ground, is desirable but it should be of leaves, straw or grass, cut before it has gone to seed; such a mulch will keep the temperature of the earth equal, and will prevent a too sudden thawing of the roots in the spring.

Rhododendron should never be pruned but planted in such order as that each specimen may grow into a perfectly symmetrical shape. Neither should large branches be cut for table or house decoration, because if the natural contour of the bush is destroyed it can never be repaired.

AN EXHIBITION SUGGESTION

The shrubs can be removed at any season except when the ground is frozen hard, or when the new growth, which immediately succeeds the flowers, is very tender,

and even then they may be transplanted if carefully handled and the roots well soaked with water. This peculiarity has enabled extensive growers in the old country, such as the Messrs. Waterer, to hold annual exhibitions of their choice varieties under large canvas tents. These exhibitions are among the great horticultural sights of the British metropolis.

If I should not be too presumptuous I might venture

to suggest that the great Massachusetts Horticultural Society would do well to hold such a show annually in Boston; not one of cut flowers only, in their hall, which after all gives but a poor idea of the beauty of the various species, or of their capabilities to make a most magnificent display when under a canvas tent; for it is there, where the bright sunlight is subdued, that their delightful and delicate shades of color are brought out to the best advantage; besides which they are protected from storms of wind and rain and last very much longer in bloom than under the open sky. The exhibition might be kept open two weeks at least, and the public would have a treat of which thousands would avail themselves.

The grouping and arrangements should be in charge of a most skilful floral decorative artist. Prizes for growing plants, either single specimens or in collections, should be liberal enough to induce competition and to reimburse exhibitors for their trouble and expense in transporting their specimens to and fro, and there is little doubt that the enterprise would be a grand success.



A Tent Exhibition by J. Waterer & Sons.

Geo. Moore

Raising Hardy Rhododendrons

WHY SO MANY RHODODENDRONS ARE TENDER

There are a few, so to say, "about hardy" rhododendrons, but the only ones that are truly hardy in New England are those who descend from *Catawbiense* and *maximum*. If *Catawbiense* had not been introduced into Europe so long after *ponticum*, which had been used as a seed bearer in crossing with *arboreum* and other tender species and gave all those beautiful varieties in cultivation, the chances are that the American species would have been taken for crossing purposes and a much hardier set of varieties would now be in cultivation. The fact is that *ponticum* is an easier and quicker grower, hardy enough in Europe, more liable to cross; as in the seedlings from true *ponticum* there is always a tendency to variation in color and form of the flower, something much less accentuated in *Catawbiense* and *maximum*, and for those reasons, probably, the American species have always been neglected. Since the demand for hardy rhododendrons in our country has begun to increase, however, the hybridizers of Europe are working in that direction and I do not see why we ought not to try to get our hardy rhododendrons ourselves. Parsons' nursery in Flushing has raised in the past some good varieties which are the leaders among the hardy ones yet, and why should not the experimenting be followed up?

Catawbiense, which flowers at the same time as the other varieties, is easy to cross. Although it is a little shy in taking strange pollen, with patience and perseverance good seed pods can be obtained. With *maximum* this is more difficult, but I think that by keeping a few hybrids in cold storage for a while one would have some flowering together for hybridizing purposes. *Punctatum* could be tried as a seed bearer also.

TO RAISE RHODODENDRONS FROM SEED

There are several methods advocated for raising rhododendrons from seed. I have tried a few ways myself with more or less success. The following is the one which gave me always best results. Eight-inch square pans are filled with crocks and moss to the half height; good sandy peat is used to fill up the pot, the

top part of which must be finely sifted, to one-half inch from the top, and well pressed down. Before seeding the soil must be sprinkled and the seed scattered over it, but not thickly, after which the pans have to be covered with glass and put in saucers big enough and always filled with water. An ordinary greenhouse is all they need, but they have to be kept in the dark until germination begins when a little air is given until they are strong enough to have the glass removed. It is best to start early, as soon as the seeds are ripe, so as to have strong little plants before the heat in the spring when they have to be pricked off and planted in the same compost as the seeds, the pans being kept always in a saucer filled with water. During the summer they have to be kept in a cool, half-shady, damp place, a cold frame being the best; thrips and damping off when too warm must be guarded against.

CARE OF THE YOUNG PLANTS

During the first winter the young plants can be kept in a good cold frame and will be big enough to be planted out in the following spring in frames or beds where they must be kept well-watered and shaded. The first winter out of doors it is best to cover them with turf as they are not yet strong enough to test their hardiness. Having been planted only four inches apart it will be necessary to transplant them again the next spring giving more room and they soon will be strong enough to show a few buds—we have buds on three-year-old plants. A little covering with leaves every winter is necessary to keep a too heavy frost out of the ground, and if they are planted in the open, shade has to be given.

As said before, we are in need of hardy American-raised rhododendrons and everybody having the time and the necessary, ought to help make a step ahead in the improvement of those beautiful ornaments of our gardens.

Am. Dutham

The Question of Hardiness

Rhododendrons have gone through a series of severe winters. These have tried the mettle of the best and the oldest of them. The size and the age of many of our largest plants ought to be a guarantee of their hardiness. They could not have lived and thrived, as many of them have done for thirty years, and not be considered ironclad. Some of these have been injured, and never more than during the past winter.

From our experience, we still believe a northern exposure best. By this we do not mean they should be entirely shut out from sunlight, although we have some remarkable plants, that are almost entirely so. Their foliage is extremely handsome, and in this respect alone, rhododendrons are remarkably effective. Still most people want them to bloom, and this they do not do nearly so well as in sunny places. Under such conditions,

however, though not so prolific in bloom, the flowers are larger, and last longer.

On the matter of exposure, we would conclude that it is most essential that the plants should have some sort of a screen from the midday sun. To illustrate what is meant: We had to move two plants in the way of improvements, and protected them specially, with a screen of spruce boughs. If this had not been done, they certainly would have been sunburned. It was done, in this case because root action was disturbed late in the season. Still it is a case in point. It is the winter's sun that does most injury, and especially during the month of March. So-called sheltered places, where sun heat has a chance to gather, suffer most. The damage comes from the alternate freezing and thawing of the buds and foliage. In more exposed places, and in full sunshine

they do not suffer so much; and near the lake—facing northwest with no protection—least of all.

All in all there are few places in Massachusetts where rhododendrons and many other exotic trees do so well. Generally under average conditions growers have a trying time. Rhododendrons give the ordinary gardener more concern than any other out-door plants. I am frequently asked to recommend an ironclad list. Not knowing the conditions it is often a difficult task. Growers in the United States are almost altogether dependent upon importations. Nothing that I know of has been done to develop a type suited to our climate. In this our hope lies in breeding up from the Catawbiense type. We may have to be content with less range in color, though with perseverance this may not be denied us. The oldest, handsomest and in every way the most satisfactory plants are the Catawbiense hybrids, which were the first ones planted.

Some years ago we suggested to the late H. H. Hunnewell that some of the hardiest of our plants should be

crossed with some of the tenderer ones of rich coloring. We were told that we should be in Mt. Auburn Cemetery before they bloomed. To be buried there is an honor we hardly expect, but we do hope to see some of our seedlings, now nearly a foot high, bloom. Whether we succeed or fail we intend to keep on.

It is difficult to arrange color satisfactory. It is a defect we see everywhere. Good whites are scarce. The only way to get color effects is to plant them liberally. I should prefer to keep the colors in separate beds, or, if I wanted a large bed, I should separate the color by using white. Other effects can be made by planting the early and late varieties separately. A bed of Charles Dickens would be past before J. W. Sargent came in. Similarly, Album Grandiflorum before Delicatessimum.

J. D. Hatfield

Roses Under Glass

EARLY PLANTED HOUSES PRODUCE BEST CROPS

Rose growers year after year are realizing the fact that houses which are planted in May, or early in June, produce the heaviest crops, and that the cut is superior in quality to those planted later. This result is doubtless due to the fact that roses planted thus early have the advantage of the long, sunny days of summer in which to grow, and usually by the end of September have developed into good-sized, thrifty plants, from which it is not unreasonable to expect a good crop. The expense attending the replanting of rose benches is a very considerable item and one from which many growers seek to escape by carrying over stock another year. Others, and their numbers increase each year, have hit upon a plan for disposing of their year-old stock to advantage. By means of liberal advertising in the newspapers, magazines, etc., these plants which but a few years ago were unceremoniously dumped on the rubbish heap, are now sold for garden purposes all over the country.

With our planting plans already perfected, young stock, soil, etc., in proper condition, the first object should be to find a market for the old stock. If this can be disposed of at a figure that will leave a fair margin of profit after paying for the labor of lifting, packing and shipping, it will be like money found, as they have got to go anyhow.

PUTTING BENCHES IN PROPER CONDITION

As soon as the old plants and soil are removed, the benches should be put into a good state of repair so that there will be no danger of a break down during the season. Weeds, old soil and rubbish should be removed from under the benches, and the boards of the benches given a good washing by playing the hose upon every crack and crevice so that no dirt will remain. The insides of the benches should then receive a good coating of hot lime wash, which destroys insects and their eggs, and helps to preserve the wood. To prevent the soil from running through the spaces between the boards wheat or rye straw may be spread on the benches. The almost perfect drainage insured by tile or hollow brick bottoms is so well known that to use the words of a well known grower—"We are only waiting for the old

benches to collapse, to relegate board bottoms to the realms of 'innocuous desuetude.'"

As soon as the benches are ready, they should be filled as quickly as possible, so that the soil may not dry out too much previous to planting. If bone meal is to be used as a fertilizer, care should be taken to spread it on the soil as evenly as possible. It may be either stirred into the soil, or left on the surface. The act of planting will place as much of the meal near the roots as is good for them at present; the subsequent watering and stirring of the soil will gradually convey the rest to within reach of the roots. If the soil in the benches is five inches deep the quantity required is about twelve pounds to every 100 square feet of surface.

PLANTING THE YOUNG STOCK

In planting Bride, Golden Gate and similar varieties, each plant should be allowed a space at least one square foot to grow in, never less. Beauties require at least one-third more, if high grade blooms are desired. Some growers prefer diagonal planting at right angles, claiming that it is much easier to give the plants the full benefit of the syringe.

Previous to planting, the young stock should be carefully examined to see that none are dry. Any plants put into the bench in this condition take a much longer time to start than do the others. Also the balls should be disturbed as little as possible, simply rubbing off the sharp edges around the surface, and not even removing the drainage. Each plant should be placed just deep enough to cover the ball, and the soil pressed firmly around it, leaving a depression around the neck of the plant. This should be slowly filled with water as soon as possible after planting, and on every bright day for about two weeks it should be repeated twice a day, as, at this stage, young stock revels in copious supplies of water.

During bright weather syringing may be practiced quite frequently and will serve not only to keep red-spider in check, but to cool off the house.

J. E. Simpson

HORTICULTURE

VOL. V

JUNE 8, 1907

NO. 23

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292
WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; To Canada, \$1.50

ADVERTISING RATES

Per inch, 30 inches to page \$1.00.
Discounts on Contracts for consecutive insertions, as follows:
One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;
six months (26 times) 20 per cent.; one year (52 times) 30 per cent.
Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

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Colored Plate With This Issue. Rhododendron Pink Pearl.

A shipper
tripped up

An action to recover the cost of a consign-
ment of lily of the valley pips, by a
Holland firm against an English florist,
was recently decided at Bath, England, in
favor of the defendant, on the grounds that the Dutch

variety had been delivered instead of the Berlin pips which had been ordered, a fact which appears to have been adequately proven by witnesses. This seems good law but there are plenty of parties who are willing to take chances and substitutions, some easy and others difficult of detection, are probably of daily occurrence in nursery, plant and seed trade. A few applications of the legal penalty for the deception, on the order of the incident above recorded, would have a healthy restraining effect.

The
rhododendron

The rhododendron has been selected as the special subject for our attention in this issue of HORTICULTURE. No argument is needed to substantiate the right of this most useful and beautiful of flowering shrubs to the distinction we are according it. The rhododendron has been deservedly designated "the most glorious of our garden ornaments." Of late years much work has been done in the field of improvement. More attention has been given to the testing of varieties for hardiness in the climate of our northern States and the English raisers upon whom we have thus far depended for the greater part of our supply are earnestly striving to furnish stock that may be relied upon. As urged by one of our correspondents in this issue, there is a good field for American hybridizers in the crossing of the rhododendron with a view to producing varieties that will be absolutely iron-clad in our gardens and at the same time possess the rich coloring and size and profusion of bloom which thus far are rarely found excepting in sorts that are not always to be depended upon.

What the
month of
June offers

Five important events scheduled for the month of June are the meetings and exhibitions of the American Association of Nurserymen at Detroit, June 12 to 14, Horticultural Society of New York at New York City, June 12 and 13, and American Peony Society at Ithaca, N. Y., June 18 and 19; Twenty-fifth Convention of the American Seed Trade Association at New York City, June 25 to 27, and the Annual Rhododendron, Peony, and Rose Shows of the Massachusetts Horticultural Society at Boston on June 8 and 9, 15 and 16, 22 and 23. There is no more delightful season for traveling than the month of June and doubtless the attendance at all these important affairs will be large, as indeed it should be. No better evidence of progressive prosperity in any branch of the great horticultural industry can be advanced than a full and enthusiastic attendance upon the meetings of the organizations devoted to its interests. Progressive no man can well be who denies himself these opportunities to mingle with his fellow craftsmen, to see and hear what others are doing and to divest himself of the narrow-minded provincialism and palpable self-conceit that so often characterizes those who never travel. Beyond a question he who attends any one or all of the events above noted in the right spirit, will take back with him a full equivalent for all it has cost.

AFTER ADJOURNMENT.

We learn from a press report that a shipment of more than 1000 barrels of fancy Australian eating apples has reached New York, the voyage occupying sixty days. Isn't it about time for our apple growers to sit up and begin to take notice?

The Pittsburg Leader for May 19th puts the credulity of its readers to a severe test in a very romantic description of "The Resurrection Flower." How is this for word painting?

The flower blooms but for a short time, and then its aspect changes. Before an hour has passed, we can see its life fading away. The pulsing light at its heart grows fainter and fainter; slowly the petals raise themselves, to drop wearily side by side upon its bosom, and finally, its beauty vanished, its strength exhausted, it hangs heavy and brown upon its stem, waiting for the touch that alone can waken it again.

Rather reminds one of the Mermets some growers used to send to market day before Christmas in the olden time!

We make bold to say that no publication on this continent, of whatever character, is doing more earnest, public-spirited, far-reaching work for the people of today and the people of the future than is Forestry and Irrigation. This magazine is issued monthly by the American Forestry Association, Washington, D. C., at \$2.00 a year, including annual membership in the Association. After reading its convincing appeals on behalf of the trees and our fast-disappearing forests and noting the many striking illustrations of forest scenery no one will regret the trifling investment for one year's dues or fail of heartiest sympathy with the Association and its well-directed work. We should like to see every reader of HORTICULTURE a member of the American Forestry Association. Apart from our ordinary interests as citizens there is much that we have in common. Horticulture and forestry touch all along the line.

SHRUB CHAT.

Climbing roses flower more profusely if the stems are trained nearly horizontally. A V-shaped incision in the bark with a sharp knife just below each bud when dormant will also tend to increase the quantity of bloom.

A group of Rhododendron Pink Pearl, the subject of the beautiful colored plate accompanying this issue, received the high award of a silver-gilt Flora Medal at the exhibition of the Royal Horticultural Society in London on May 14.

Viburnum Carlesii, which flowered for the first time at Kew last year, is spoken of by a writer in the Gardeners' Chronicle as one of the most valuable of recently introduced shrubs. It is a native of Corea and quite distinct in general appearance from any other cultivated species; the flowers are white on the inner surface and pink on the outer, bearing a strong resemblance to some species of Rondeletia and having a delicious perfume.

You will find something worth reading on every page of HORTICULTURE.

UP-TO-DATE METHODS OF GROWING THE DAHLIA.

As a first essential for growing the dahlia properly the ground should be thoroughly cultivated to the depth of eight to ten inches. If planted in hills the tubers should be given a depth of fully six inches; they should be laid horizontally in the soil in place of vertically so that the tuber at the sprout should be not less than six inches below the surface. The new tubers all form and make their growth at the base of the crown of the old tuber. If planted as advised there will always be moisture enough in the soil to keep the plant continually growing. After the tubers are placed it is well to cover the sprout an inch or so with soil before using any fertilizer or dressing. It is not wise to use too much stimulant at first. After the plants get to the stage of throwing out buds it is well then to make another application, either in liquid or raw state; this should be applied around the plant on top of the soil from six inches to two feet. One great point to be considered before the plant gets to its flowering state is the cultivation of the soil. In order to obtain the best results from the dahlia, the soil should be kept thoroughly cultivated either with a hand hoe or with a horse cultivator. After your plants begin to show signs of flowering it is not well to cultivate them, as this is very apt to injure the plant through the cutting off of many of the new tubers thus weakening the growth, and in many cases causing the plant to wilt in the hot sun, something from which it will take a long time to recover. The dahlia will do well on any kind of soil if properly treated. If grown on heavy soil it is well to use some ground bone meal and nothing but staple fertilizers should be used. On light sandy soil it is well to use some stable dressing, also ground bone meal can be used with good effect, as this is the soil that just suits the dahlia, but good cultivation is the main point in getting first-class results for there is no plant that is more responsive to cultivation and good treatment than the dahlia and if properly cultivated it will produce more flowers than any other plant in the garden.

J. K. ALEXANDER.

East Bridgewater, Mass.

JUNE EXHIBITIONS AT BOSTON.

The annual rhododendron exhibition of the Massachusetts Horticultural Society will be held Saturday and Sunday, June 8 and 9, at Horticultural Hall, Boston.

The annual rose and peony show will take place the following Friday and Saturday, June 14 and 15, followed on Saturday and Sunday, June 22 and 23, by the rose and strawberry exhibition.

As the season is unusually backward it is expected that these exhibitions will overlap each other somewhat, and classes not competed for on the dates assigned will be continued over to the following week, so that a series of fine weekly exhibitions is assured for the next three weeks.

The admission is free to all.

WM. P. RICH, Secretary.

MUSINGS OF MCGORUM.

Decoration Day goes on record as the best in history. The scarcity of outside flowers brought about by the late season accounted in a great measure for the volume of business done, and it brought to the surface the fact that people are willing to pay for good flowers at any time of the year when they want them. In one of your contemporaries I noticed that the Boston correspondent mentioned that carnations were being preserved, or, in other words, "salted." Tuesday morning I noticed a certain shipment of carnations that had just reached a wholesaler; on being opened some Lawsons on top were found in fairly good shape, but the white ones underneath were in a dilapidated, weary condition. The wholesaler passed them aside and opened another lot from a different party, which were in good shape. The first mentioned lot probably went to the fakir and, of course, there would be a protest from the consignor as to why he didn't get the top price when carnations were selling at a high figure. Such men practicing this game ought to be keel-hauled, branded and drummed out of the business. It stops people from buying very often when they otherwise would.

We have all been busy, and the rose men will now be still busy as the planting season is in full swing. Verily a greenhouse man's life is strenuous, but of course there are little pleasures such as club outings, club banquets and meetings that tend to help him smooth over the rough places in this stirring world. There was considerable excitement at the last club meeting. On entering the hall I noticed a group of men hastily putting on their overcoats, ready to take to the tail timber. I noted that the hall looked somewhat different, the roof being hung with calico, all plaited like Scotch kilts, and the wall draped in white. I thought some of the clans had dyed their tartans, or some of the Back Bay ladies had hired the hall as a drying room for the washings to keep them clear of the B. & A. R. R. smoke. But Pres. Westwood, with his usual tact, came forward and explained that the trustees were trying experiments to get better acoustic results. Little, if any, difference could be noticed, however. When at the boiler hearing, some time ago, we heard a boiler expert talking about the pulsation of the engine wearing out the boiler. There being many second-hand boilers sold cheap, why couldn't the trustees buy a quantity, cut them open and make an arch over the hall? The speaker's voice would reverberate along the centre and drop echoes at the end so that the deaf could hear.

I see in your N. Y. contemporary of recent date that our friend W. N. Craig took the editor of that paper to task in words something like this:

"Come hither Aleck lad an' answer for't: your blam'd for leelin'."

Craig used bare knuckles and had the worthy editor gasping for breath in the first round.

The saying that "it's an ill wind that blows nobody good," seems to hold good just now, for the cool weather has helped to keep roses in better condition than they would be had we the usual weather at this time of the year.

R. T. MCGORUM.

NEWS OF THE CLUBS AND SOCIETIES

AMERICAN ROSE SOCIETY.

Certificates and Prizes—\$200.00 and \$100.00 for Outdoor Roses.

Pursuant to notice, the Executive Committee of the American Rose Society held a meeting at the Hotel Martinique, 33rd St. & Broadway, New York city, on Tuesday afternoon and evening, May 28th, at which meeting there was taken up the matters pertaining to the Washington Exhibition, Mr. Bisset, president of the Washington Florists' Club being present.

The minutes of the business meetings were read and recommendations for action passed at that meeting referred to the executive committee were taken up, viz.:

The recommendation that a certificate of merit be awarded to novelties which did not score the requisite number of points to receive either gold or silver medals of the Society as now provided. At the Washington meeting, at the second session this subject was discussed with interest by Messrs. Craig, Elliott, Barry, Farenwald, O'Mara and others. In accordance with the authority then imposed upon the Executive Committee, the following resolutions were offered and carried:

Resolved that hereafter any exhibit competing for the Society's medals or certificates shall consist of twelve blooms.

Resolved that a certificate of merit be awarded to any novelty covering 80 or more points in accordance with the recommendation made at the annual meeting in Washington in March, 1907, and that this certificate be, and is hereby added to the list of medals now offered by the American Rose Society for novelties but the certificate is not to be delivered until the variety is named.

Resolved that a certificate of merit be awarded to the varieties, Queen Beatrice scoring 83 points, Rhea Reid scoring 80 points and the variety exhibited by Messrs. Myers & Samtman, scoring 81 points.

Resolved that the following varieties of climbing roses exhibited by M. H. Walsh, Woods Hole, Mass., Paradise, La Fiamma, Delight and Juanita be awarded a certificate of merit as recommended by the judges of the Washington Exhibition, March, 1907. These resolutions were put to vote and carried unanimously.

Mr. E. G. Hill of Richmond, Ind., advised that he would attend the Nurserymen's Convention at Detroit and if opportunity offered, bring before that body the advisability of the support by nurserymen of the Rose Society, especially in the interest of hardy outdoor roses. On this point Philip Breitmeyer, vice-president elect of the Society, advocated that some recognition should be offered to induce exhibitions of outdoor roses, saying, "I offered a prize when at the meeting in Washington for an exhibition of outdoor roses in bloom, say 100 or 150 plants in a group. This should be limited to outdoor roses but not limited to varieties. I have suggested this idea to several men who are largely interested in this class of stock and in order to bring this to a

head, I will offer \$200 for a first prize and Mr. Boddington will offer \$100 as a second prize to be awarded for such an exhibition in any form that is desired.

This liberal offer provoked very much interest, calling forth the belief that so large a prize would stimulate efforts which had never been made before in this direction. Mr. Farenwald said that he had never yet seen a good show of Hybrid roses in pots at any of our exhibitions, but I admire the pluck of Mr. Breitmeyer in leading off as he has done in this direction and Mr. Breitmeyer deserves thanks for his liberal offer. The Committee accepted the prizes of Messrs. Breitmeyer and Boddington with thanks.

The matter of increasing the membership of the Rose Society was brought forward and a further suggestion of Mr. Breitmeyer was favorably received, he having said, in speaking of the coming show at Chicago, that he believed our field in the west to be large and that the growers as a rule were in sympathy for mutual benefit.

Life memberships are greatly to be desired so that thereby a permanent fund may be acquired. A suggestion was made, following the recommendation of President Simpson in his annual address, that a list of names of such men as may be eligible be distributed for life membership. Mr. Breitmeyer said he would be glad to be one of the executive committee to secure life members or to increase the membership to where it is desirable to have it.

A resolution was passed directing the Secretary to prepare a Bulletin of the proceedings of the last annual meeting and exhibition and secure specimens of suitable certificates of merit and certificates of life membership.

BENJAMIN HAMMOND, Sec.
Fishkill-on-Hudson, N. Y.

FLORISTS' CLUB OF WASHINGTON.

The June meeting of the Florists' Club was held at Gude's Hall on June 4th. One new member, D. N. Shoemaker, a recent addition to the carnation industry, was admitted to membership in the club.

Pres. Bisset exhibited several of his new seedling roses; they were enthusiastically received by the members present. One, a pink one, of exquisite shade, named Rosalie, attracted especial attention. Another, somewhat darker, more like La France, was especially handsome. It will be remembered that Mr. Bisset was the originator of the Queen Beatrice rose, of which the above mentioned are, I believe, descendants.

A motion, made by Geo. H. Cooke, to have a chrysanthemum show held here next November, under auspices of the Florists' Club, was carried. The date has not yet been decided upon.

A handsome silver cup, won by the bowling team in their late contest, was exhibited by W. H. Ernest. After some minor discussions the meeting adjourned to meet again the first Tuesday in July.

AMERICAN PEONY SOCIETY.

Fourth Annual Meeting June 18 and 19 at Ithaca, N. Y.

The fourth annual meeting of the American Peony Society is to be held in the new buildings of the New York State College of Agriculture at Cornell University. There are many reasons why this meeting promises to be an interesting and important one. There will be an exhibition of blooms staged in the auditorium of the College, which will represent the best productions of the various growers in the country. Besides this there is an extensive collection of varieties comprising nineteen hundred and thirty-three lots of one, two or three plants each, growing on the Experiment Station grounds, which have been donated by peony men all over Europe and America. These blooms will be available for study to all those interested. A checklist, including all names ever published with descriptions, and giving references to sources and indicating all pictures, will be available for use at this meeting. Questions of nomenclature bearing upon the authenticity of varieties and the grouping of synonyms, will be brought up for discussion.

The meeting, coming as it does in Commencement week, will give an opportunity to visitors to inspect all buildings of the University, and pleasure parties may be made up to visit some of the many interesting and beautiful waterfalls, gorges and lakes, for which this region is famed.

FLORISTS' CLUB OF PHILADELPHIA.

A well attended meeting of this club was held on the 4th inst. Antoine Wintzer, on the "Deterioration of Forcing Roses," was the principal attraction. He dwelt especially on the rage for cheapness and blamed the shoddy spirit of the age for much of the falling away. Some of the members seemed to think that Mr. Wintzer took too pessimistic a view of things declaring that there was always a market for the best and that if the best was always properly advertised and emphasized there would be no trouble in getting good prices. Six new members were elected to membership. Chas. D. Ball, chairman of the executive committee on convention, reported satisfactory progress, and predicted ample resources for taking care of what is felt now will be the banner crowd in the history of the trade. Jno. Westcott has recovered his health and is helping the rest of the members to plan arrangements with all his old-time vim and spirit. A special meeting of the Executive Committee will be held on the 20th inst to perfect details on convention program.

Joseph Heacock has been chosen as head of the hotel committee for S. A. F. convention at Philadelphia. Those who wish to be forehanded in this matter should address him at Wyncote, Penn.

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Bay Trees Standards, Pyramids, and Kaizer Kronen. All prices and sizes.

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Kentias in all sizes from 50c. up.

Phoenix Canariensis, 2 ft. 6 in., 10 leaves, \$3.00 per pair; 2 ft. 10 in., 10 leaves, \$4.00 per pair; 3 ft., 10 leaves, \$5.00 per pair; 3 ft. 4 in., 10 leaves, \$6.00 per pair.

DRACAENAS

Dracaena Indivisa, 5 1/2 in. pots, \$6.00 per doz.

Dracaena Fragrans, 6 in. pots, \$6.00 per doz.

BAY TREES

Standards, 4 ft., 8 in. stem, \$12.00 per pair; 4 ft., 8 in. stem, \$15.00 per pair; 4 ft., 8 in. stem, \$18.00 per pair.

Hydrangeas. A large assortment of sizes just coming into flower.

English Ivy, \$2.00 per doz. \$15.00 per 100.

Anthericum, variegated for vases, \$1.50 per doz.

Aspidistras, green, \$12.00 per doz., in 6 in. pots; \$18.00 per doz. in 6 1/2 in. pots.

Crimson Ramblers and **Dorothy Perkins**, fine plants well budded, \$12.00, \$18.00 and \$24.00 per doz.

Asparagus Sprengeri, 3/4 in. pots, \$1.25 per doz; \$10.00 per 100.

Ardisia Crenulata, fine plants for fruiting, 4 1/2 in. pots, \$50.00 per 100.

Large Boston Ferns, per pair \$12.00 for hall decoration

Araucaria Excelsa, \$2.00 to \$3.00 each. 8 in. and 9 in. pots.

Fern Balls, 6 in., \$4.00 per doz; 8 in., \$9.00 per doz.

Bridal Myrtle, 4 in. pots, \$3.00 per doz.; 6 in. pots, \$12.00 per doz.

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Lady Gay THE FAMOUS RAMBLER ROSE

2 1/4 in. Pots, \$10.00 per 100

3 1/2 in. Pots, 12.50 per 100

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in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

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10,000 Berberis Thunbergii, 18 to 24 inch, at \$50.00 per 1000.

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All are 2 yr. old transplants, fine bushy stock.

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8,000 choice Dahlia Roots for sale cheap.

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31 BARCLAY STR. NEW YORK.
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Cold Storage Lilies

All live and up-to-date florists grow
COLD STORAGE LILIES

THE forcing of cold storage lilies is no longer an experiment. If you have not already grown some of these we can refer you to **hundreds of florists** who make a success of this method and have lilies "all the year round"—The same as Lily of the Valley.

Our lilies are bought for and placed in cold storage for the **express purpose of delivering bulbs in the summer time.**

Lilium longiflorum and l. giganteum take about two months to bloom from

Lilium Longiflorum Giganteum—Cold Storage		
	Per 100	Per 1000
7 to 9-in. bulbs, 300 in case...	\$ 8.00	\$ 75.00
9 to 10 " " " 200 " " " "	13.00	125.00

Lilium Longiflorum Multiflorum—Cold Storage		
	Per 100	Per 1000
9 to 10-in. bulbs, 200 in case...	11.00	100.00
Monsters 100 " " " "	15.00	

Lilium Speciosum Rubrum—Cold Storage		
	Per 100	Per 1000
8 to 9-in. bulbs, 200 in case ..	8.00	75.00
9 to 11 " " " 150 " " " "	12.50	110.00

Lilium Speciosum Album—Cold Storage		
	Per 100	Per 1000
8 to 9-in. bulbs, 200 " " " "	9.00	80.00
9 to 11 " " " 140 " " " "	16.00	150.00

Lilium Speciosum Melpomene—Cold Storage		
	Per 100	Per 1000
8 to 9-in. bulbs, 200 " " " "	9.00	80.00
9 to 11 " " " 150 " " " "	12.00	115.00

Lilium Auratum—Cold Storage		
	Per 100	Per 1000
8 to 9-in. bulbs, 160 in case...	5.50	50.00
9 to 11 " " " 120 " " " "	9.00	80.00
11 to 13 " " " 75 " " " "	16.00	150.00

ARTHUR T. BODDINGTON, 342 West 14th St., NEW YORK CITY

Seed Trade.

Unfavorable reports about the pea crop are arriving, and some specific instances of serious damage are given. A letter from one of the leading canners who is located in Michigan, says he has lost 200 acres of peas through the rotting of the seed, and that much of his other acreage is more or less "spotted." Other reports from Michigan and from other sections, though less specific than that cited, all tend to show that peas are not in fine condition, and in fact have started with considerable of a handicap. As the situation develops, the facts will be given in HORTICULTURE.

Weather conditions are much improved since the advent of June, but are still quite unsatisfactory. Much re-planting of corn and beans is reported and, in the seed corn districts of Connecticut, this is being done on an extended scale as seed of the first plantings has quite generally rotted in the ground.

Vine seeds are now being planted, but under more or less unfavorable conditions. Jerome B. Rice Seed Co., report the situation as very unsatisfactory in Washington County, New York.

It is significant that not a single seed crop is considered to be in really fine condition. This is a danger signal which the thoughtful seedsmen will not ignore.

There is still a possibility of Rennie & Thompson of Providence, adjusting matters, and continuing in business, although there may be some change in the personnel of the firm. Nothing has been decided, however, though a definite decision will have to be reached soon.

A liberal fund has been raised for the entertainment of the seedsmen at their forthcoming convention, but how to spend it to the best advantage is troubling the Committee on Entertainment. Part of the Committee advocate spending it on one grand banquet, while others think a good dinner, with not too much spent for liquids would be more satisfactory, as it would leave a considerable balance

200,000 Calla Lily Bulbs--Æthiopica



	100	1000
Calla Æthiopica, 10 inches circumference	\$10.00	\$90.00
" " " 9 " " " "	9.00	80.00
" " " 8 " " " "	8.00	70.00
" " " 7 " " " "	7.00	60.00
" " " 6 " " " "	5.50	45.00
" " " 5 " " " "	4.50	35.00
" " " 4 " " " "	3.50	25.00
" " " 3 " " " "	2.25	15.00

The above Bulbs are all warranted to be free from disease, and safe arrival is guaranteed. My first car leaves for the East promptly on July 15. If cash is sent with the order I will prepay the freight, which is 15 per cent value of the bulbs.

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Fresh Crop

Now Ready

Famed for a quarter of a century and when you buy them you get the **best in existence.** I am continuing the pansy business on exactly the same standard as carried on by my father, the late DENYS ZIRNGIEBEL. **None genuine unless sold by me.**

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GIANT MARKET. "The Variety for the Million." Trade packet, 2000 seeds, \$1.00.

GIANT FANCY. The NE PLUS ULTRA in Pansies. Trade packet, 1000 seeds, \$1.00.

to be expended in other ways. In view of the fact that not over half of those present will drink wines or liquors of any kind, much of the money spent for this part of the dinner will be wasted, and while not desiring to "butt in" or offer advice, the opinion is ventured that a moderate-priced dinner will be much more satisfactory to the great majority of those who will attend the convention.

W. Atlee Burpee and family, together with Mr. Brown, treasurer of the Burpee Company, Philadelphia, sailed for Europe on the 1st inst.

The business of the Lamar Seed Co., Lamar, Colo., has been purchased by F. H. Kelsey.

C. C. Morse & Co., have leased the six story and basement, class B building, at 48 to 56 Jackson street, running through to 13 to 22 Clark street, San Francisco, Calif. Their offices and all of their bulk department and general packing headquarters will be moved to this building. They will continue to operate the retail store of the Cox Seed Company at 125 to 127 Market street and are having same fitted up in a very attractive manner. A sign now appears on the front of

the building "C. C. Morse & Co. successors to Cox Seed Company." They will carry on all of the departments formerly operated by the Cox Seed Company and E. J. Bowen, but their growing department will be operated as an entirely distinct business, with T. M. Landrum and Lester L. Morse actively in charge.

Miss Katherine Boyden has been appointed to the position of private secretary to Mr. Richter, general manager of the Michell store, Philadelphia.

GLADIOLI

Beautifully illustrated catalog, colored plate, etc., describing **Groff's Hybrids, Named Novelties of rare beauty, Mixtures and Collections to color and fine Mixtures of all colors.** Write for it.

ARTHUR COWEE

Gladiolus Specialist
MEADOWVALE FARM, BERLIN, N. Y.

IRRIGATED LAND PRODUCTS EXPOSITION.

Accompanying the 15th session of the National Irrigation Congress at Sacramento, Cal., this year will be an interstate exposition of irrigated land products and forestry products. This will be open from September 2d, when the Congress commences until the conclusion of the State Agricultural Fair, which follows immediately upon the closing of the Congress. The considerable interest that is being taken in this exposition by prominent people is indicated by the number of trophies and prizes offered for competition. No less than fifteen handsome gold and silver loving cups have been offered for inter-state competition, and to these there will be added a long and valuable list of medals, cash prizes and special awards. California will not compete for these general prizes, so that all exhibits will be on an equal footing and not be handicapped by material right at home which is always at an advantage.

PUBLICATIONS RECEIVED.

Annual Report of the Department of Agriculture for the fiscal year ending June 3, 1906. This contains the report of the Secretary of Agriculture and of the chiefs of the various bureaus, including the weather, animal industry, plant industry, forest service, chemistry, soils, entomology, biological survey, publication, statistics, library, experiment stations, public roads and other divisions of the department.

Annual Report of the Maryland State Horticultural Society, Vol. IX, 1906. Gives in full the proceedings at the summer meeting at Berlin, Md., August 8 and 9, and the 9th annual meeting, at Baltimore, Md., Dec. 5 and 6, 1906. All the excellent papers on horticultural topics presented at both of these meetings are published in full together with the speeches at the annual banquet, the whole making a volume of 300 pages.

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Mxd Colors	.40 2.50
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Good Sized Bulbs
50c per 100 per 1000, \$4.00

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Mixed Colors, Dormant Roots
\$1.50 per 100 \$13.50 per 1000

CALADIUM
ESCULENTUM
(Elephant Ears)

	per 100	per 1000
5 to 7 in.,	\$2.00	\$18.00
9 to 11 in.,	5.00	45.00
11 to 13 in., Mammoth,	9.00	80.00

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F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

Orchids Orchids

A man can buy now, pretty well all the time, all kinds of freshly imported Orchids, more or less good, but not all the time can he buy **fine plants**. We are in a position this spring to supply such, a few of which we mention below, and many more are to come.

Cattleya Percivaliana. These are the finest plants ever arrived in this country; every one is perfect; if ordered now and potted you will have a nice crop of flowers in November and December.

Cattleya Laleiata. These are in extra fine shape, plump and well leafed, and will pay for themselves the first season. Any of the above by the dozen or 100 or by the case.

We have also the following fresh arrivals:

Laelias, Crispa, Dayana and 'Traestans.

Oncidiums, varicosum Rogersii, Crispum, Marshallianum and luridum.

Miltonias, Clowesii, Cuneata, Candida and many others.

Write for prices.

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Cattleyas, Laelias, Oncidiums, etc.

Write for price list. Finest quality of Peat and Moss and Orchid Baskets on the market.

Give me a trial order.

Joseph A. Manda

191 Valley Road, West Orange, N. J.

Just arrived in superb condition:

Cattleya Percivaliana, Cattleya laleiata, Oncidium varicosum Rogersii, O. Crispum, O. Marshallianum, O. luridum, Miltonia Cuneata, M. Candida, M. Clowesii, Laelia Crispa, L. Dayana, L. Traestans, etc. Write for prices.

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Cattleya Trianae, C. Trianae, var. Papayan, C. Schroederiae, C. Sanderiana. To arrive, Cattleya gigas, C. Aurea, C. Mendelii. Call for quotations from all the best varieties of the above, Miltonia, Vanda, etc. Prices per plant, 100 and Vanda. Extremely rare Vanda Sanderiana for July delivery. A. HELD, 11-19 William St., NEW YORK

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Mixed, standard varieties, 3 in., 6c.

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Vinca Major, Green, 3 in., 6c. **Dracaena Indivisa**, 5 and 6 in., 20 and 30c. **Asparagus Sprengerei**, 3 in., 4c. **Begonia Thurstonii**, 3 and 4 in., 4 and 7c. **Geraniums**, in bloom, Standard varieties 3 and 4 in., 5 and 8c. **Salleroi**, 3 in., 4c. **Alvissum Little Gem**, 2¼ in., 2c. **Coleus**, Verschaffeltii, Firebrand, Golden Bedder and mixed, 2¼ in., 2c. **Alternantheras**, Aurea Nana and Brilliantissima, 2¼ in., 2c. **Centaurea Gymnocarpa**, 2¼ in., 2c. 1000 rate on this 2¼ in. stock, \$17.50.

Poinsettias, June delivery, 2¼ in., \$5.00 per 100, \$45.00 per 1000; 3 in., \$7.00 per 100, \$65.00 per 1000.

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2 1-4 inch, \$10 per 100

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Plants from 2½ in. pots, 50c. per doz. \$3.00 per 100

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\$6.00 per 100

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200 Beaute Poitevine, very large plants, 13-15 inches in diameter, \$6.00 per dozen.

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RAMBLER ROSES in 6, 7 and 8 in. pots

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25c. to \$1.00 each

Variegated Funkias, in 3 in. pots, \$5.00 per 100.

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Large Marshal Niel Roses, \$5.00 each

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GERANIUMS, standard varieties and novelties for \$2.00 per 100 up to 75c each. We will send one thousand in twenty varieties, our selection single and double for \$18.00.

Caesar Franck. Beautiful soft crimson Ivy Geranium, 1905 Novelty, 25c each, \$1.50 per doz., \$10.00 per 100

Alliance, the hand-ome semi double hybrid between an Ivy and a Zonal color of the Col. Baden-Powell, strong robust grower, 25 cts. each, \$1.50 per doz., \$10.00 per 100.

Special offer for a short time. To introduce the newer varieties and to give an opportunity to have them thoroughly tested we will for a short time send one each of 100 varieties of the 1905 and 1906 novelties, our selection for \$10.00 cash. This collection will include those of such noted introducers as Bruant, Lemoine, Rozain-Bouchalat and H. Cannell & Sons and represent one of the finest collections of geranium novelties ever offered in this country. Do not ask us to send less than 100 at this price. If you haven't our Geranium Catalogue send for it. All stock is in A No. 1 condition and from 2 inch pots, unless otherwise stated.

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Selection of sorts to remain with us.

Cash to accompany all orders.

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GERANIUMS

S. A. Nutt, Telegraph and Mme. Buchner, in bud and bloom, from 4 in. pots. All stock, \$8.00 per 100, stock plants of same varieties, 5 in., \$12.00 per 100, 6 in. \$14.00 per 100.

Alphas Variegated, 5 in., fine stock, \$2.00 per doz; \$15.00 per 100. Cash with order.

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See our Greens Advertisement on page 763.

L. D. Telephone, Main 2618.

PITTSBURG DOINGS.

The Centennial anniversary of the birth of Agassiz, the naturalist, was celebrated by the High school students in Columbus Grove, Schenley Park, on May 28th, as a postponed Arbor Day. Eighty-three trees were planted, fifty in honor of famous naturalists. Superintendent of Parks G. W. Burke directed the planting.

Retail florists had a busy time the few days preceding Memorial Day, there being an unprecedented demand for bedding plants and cut flowers. The scarcity of out-door flowers was considered to be the reason for the great demand for cut flowers, the only outdoor flowers in evidence in any quantity being Viburnum opulus which however drooped very quickly in the bright sunshine. Carnations of all colors were plentifully distributed throughout the cemeteries, Enchantress and Lawson being the favorites. Roses were not very largely used, Lilium longiflorum, lily of the valley and tulips were plentiful. A few sweet peas and fewer cattleyas were noticed. The most important exercises of the day were held in the beautiful Allegheny cemetery where W. Falconer has done good work during the few years he has had charge. An important feature of the exercises was the distribution of flowers of a high grade on the graves of the many soldiers buried in this charming cemetery which, although situated in the midst of a hustling city, is rapidly assuming a natural and rural character. Besides the usual bedding plants which were present in abundance, large plants of hydrangeas, Astilbe Japonica and spireas were noticed. Amongst the bedding plants the predominant color was scarlet, S. A. Nutt geranium

being the favorite. The run on bedding plants and cut flowers continued until late in the day. In St. Mary's and Homewood cemeteries the same condition prevailed.

J. H.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next regular meeting of the club will be held at Horticultural Hall on Tuesday evening, June 18, at 8 o'clock. The speaker of the evening will be Charles H. Totty, the recently elected president of the New York Florists' Club; his subject will be "The Chrysanthemum: Its Past, Present, and Future." There are other attractions being planned for this meeting which will undoubtedly be more largely attended than any in the club's history. W. N. CRAIG, Secretary.

CLUB AND SOCIETY NOTES.

The Outing Committee of the New York Florists' Club has completed its work on the programme, and \$265 has been subscribed by advertisers, and nearly \$300 for prizes. The Committee hopes to distribute copies of the programme at the meeting of the club on Monday, June 10.

The Ogden Floral Society has been organized at Ogden, Utah, with W. T. Stillwell, president, and J. F. Hendershot, secretary and treasurer. Its objects are to develop public taste in the adornment of public and private grounds and to discourage ruinous competition in prices.

A fire started in the establishment of Hike & Jones, Cortland, N. Y., on May 21, but was arrested quickly.

WASHINGTON NOTES.

Joseph R. Freeman has a cross between American Beauty rose and Baby Rambler which he prizes highly and which he thinks will be heard from in the future. A number of other new rose seedlings are under trial at this place. With Cook, Freeman, and Bisset all at work on the Queen of Flowers Baltimore and Washington are at present quite a center of interest in that new race of American roses of which Richmond is so encouraging a forerunner.

Peter Bisset has a new shell-pink Hybrid Tea rose of delightful fragrance, good form, good stem and foliage. Also a yellow sport from Abies alba and a golden form of the tulip poplar. A fine new range of conservatories is being erected; Moninger of Chicago has the contract.

Otto Bauer, a brother of Fred C. Bauer of Baltimore, is now associated with and acts as manager of the retail store of the Washington Florists' Co. The greenhouses of J. Louis Loose at Alexandria, Va., and others are a part of this concern.

Edward A. Schmid the 13th street seedsman is happy over the completion of his new store front and building obstructions next door which have hurt business somewhat the past six months.

G. C. W.

DURING RECESS.

W. H. Ernest, George Cooke, Samuel Simmonds, George Schaffer, and other prominent Washington business men who take an interest in the ten-pin pastime are proud of their improved standing and prospects in connection with the Baltimore and Philadelphia series and the coming convention.

NEWS NOTES.

George Holst, Jr., of Flushing, N. Y., has opened a retail store at 102 Main street.

The greenhouse of Alvin Bates, Rockland, Mass., was entered on May 28 and a quantity of carnations and other flowers stolen.

A. W. Turner and C. A. Keller have purchased the Hartman greenhouses, Van Buren, O., and J. J. Waaland of Findlay purchased the stock of plants.

City Forester Gale has taken up active operations against the beetles and moths that are preparing to devastate the shade trees of Springfield, Mass. Arrangements have been made for the spraying of elm trees on private grounds at the owners' expense.

Mrs. E. M. Bartow, 317 Market St., Chester, Pa., was robbed of about \$30 on May 24. A man went into the store and asked to have ten cents changed. In a few moments he returned with a companion who asked to look at plants and it is supposed that while the book-keeper was showing the plants the money was taken.

OBITUARY.

T. W. Guy.

T. W. Guy, formerly of North & Guy of St. Louis, died at St. James, Mo., on May 24, aged 76.

John Spiess, Sr.

John Spiess, Sr., a well-known florist of Buffalo, N. Y., died at the home of his daughter, Mrs. Frederick Fox, 611 South Park avenue, on May 25. Mr. Spiess was born in Aschenfeld, Germany, 74 years ago. He came to this country in 1853 and made his home in Buffalo. For 15 years he conducted a successful florist business on Peach street, retiring in 1886 and turning the business over to his son, John Spiess, Jr.

He is survived by one daughter, Mrs. Frederick Fox, and two sons, John Jr. and Andrew Spiess.

A CORRECTION.

In the paper on Bedding Plants by Thos. H. Westwood, page 719 of our last week's issue, "sixty feet apart" as applied to the distance recommended between plants of canna Alphonse Bouvier should have been given as "six feet."

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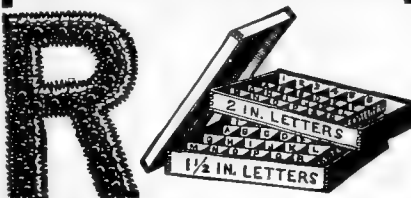
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	June 4		June 4		June 3		June 5	
ROSES								
Am. Beauty, Fan. & Sp.	30.00	to 35.00	30.00	to 40.00	30.00	to 35.00	15.00	to 17.00
" Extra.....	20.00	to 25.00	25.00	to 30.00	20.00	to 25.00	10.00	to 12.00
" No. 1.....	12.00	to 15.00	21.00	to 22.00	15.00	to 20.00	6.00	to 8.00
" Lower grades.....	6.00	to 10.00	6.00	to 8.00	8.00	to 10.00	2.00	to 4.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	6.00	to 8.00	8.00	to 10.00	4.00	to 6.00
" " Extra.....	4.00	to 5.00	8.00	to 10.00	6.00	to 8.00	3.00	to 4.00
" " No. 1 & lw. gr.	3.00	to 4.00	4.00	to 6.00	4.00	to 6.00	.50	to 1.00
Liberty, Richmond, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	12.00	to 15.00	6.00	to 8.00
" Lower grades.....	4.00	to 5.00	6.00	to 8.00	8.00	to 10.00	.50	to 4.00
Chatenay, Morgan, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	8.00	to 10.00	3.00	to 5.00
" Lower grades.....	3.00	to 4.00	6.00	to 8.00	4.00	to 6.00	.50	to 2.00
Killarney, Wellesley, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	8.00	to 12.00	6.00	to 8.00
" Lower grades.....	3.00	to 4.00	6.00	to 8.00	4.00	to 6.00	1.00	to 3.00
CARNATIONS								
Fancy and Novelties.....	3.00	to 4.00	2.00	to 3.00	5.00	to 6.00	.75	to 1.00
Ordinary.....	1.50	to 2.00	1.50	to 2.00	3.00	to 4.00	.50	to .75
MISCELLANEOUS								
Sweet Peas.....	.50	to 1.50	.75	to 1.00	1.00	to 1.50	.25	to .75
Cattleyas.....	50.00	to 60.00	50.00	to 60.00	.....	to 75.00	35.00	to 60.00
Lilies.....	12.00	to 15.00	12.00	to 15.00	12.00	to 15.00	10.00	to 12.00
Callas.....	8.00	to 10.00	12.00	to 15.00	12.00	to 15.00	10.00	to 12.00
Lily of the Valley.....	2.00	to 4.00	2.00	to 3.00	3.00	to 5.00	2.00	to 4.00
Gardenias.....	.50	to 1.50	2.00	to 10.00	6.00	to 12.00	1.00	to 1.50
Mignonette.....	4.00	to 8.00	3.00	to 5.00	2.00	to 4.00	1.00	to 2.00
Lilacs (too bunches).....	25.00	to 50.00	.....	to 2.00	2.00	to 4.00	2.00	to 4.00
Peonies.....	6.00	to 8.00	8.00	to 10.00	8.00	to 15.00	4.00	to 8.00
Adiantum.....	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Smilax.....	15.00	to 18.00	.....	to 30.00	15.00	to 18.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	to 50.00	50.00	to 100.00	to 50.00
" " & Spreu. (too bchs.) ..	35.00	to 50.00	to 50.00	50.00	to 75.00	35.00	to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON Business didn't wait long after Memorial Day to go to smash, so far as market values are concerned. Prices have fallen from 25 to 50 per cent. on most lines. Roses are moved at 1,000 rates, which in many cases are not very far from the 100 rates of one week ago. American Beauty roses are plentiful and slow to move. Lilies are strong at maximum prices. Gardenias are being received in abundance from the South and bring carnation values with reluctance. Carnations themselves are down to summer rates. Sweet peas are abundant with a weak market. Peonies from southern points are beginning to put in an appearance.

The week ending June 1 **BUFFALO** will be remembered by many. The Memorial Day business will not exceed previous years, as the stock was not obtainable. Parties ordering previous to Memorial Day, and who depended on receiving their full orders, were sadly disappointed, as orders were all cut in two in filling, the March weather having shortened the supply to one-third of what it should have been; this was especially true of carnations, which had the heaviest demand. There was very little out-door stock, and that which was had was snapped quickly. Roses were the life saver, and they as well as lily of the valley, peas, lilies, etc., went off at a lively rate. The latter were somewhat scarce and prices were high. Peonies were not seen at all, and very little lilac was had. Everybody concedes that the coming month belongs to the lovers and the graduates. Traditions now-a-days are becoming frightfully shattered; April showers have turned to sleet, the May blossoms have had a hard task making their debut in snow storms and frigid weather. The growers are coaxing on their crops of roses in order to be able to supply the demand during this month.

We had for weeks expected to have a fine business. Memorial Day; but no one in the trade had the least idea that any such flood of orders as was poured upon us could be possible. Several causes made this pleasing result; in the first place, there was little or no outdoor stock; then again, with every year that passes this sacred holiday is gaining great momentum as far as the use of flowers is concerned. Everybody will have them—the price matters little. It was very easy to see early on Wednesday what the result would be; stocks no matter how large, simply melted away. After most carefully considering the whole trade, I believe that in the aggregate twice as much stock could easily have been sold. The final result was by far the best and largest business ever done in this city for a Memorial Day.

The predominant feature **DETROIT** of Decoration Day was a general scurrying around to supply the demand of the buying public for flowers. The tardiness of spring caused a dreadful shortness of flowers, so much so as to be harmful to the business. Heretofore we labored here under a favorable short-

ness—that is, the scant supply prevailing stiffened prices so as to reduce that dreadful practice of cutting prices to a minimum. This time, however, a great volume of business was not done because there was no supply to do it with, a condition which occurs very seldom and could not be remedied even if it had been foreseen.

The Memorial **INDIANAPOLIS** week's business broke all previous records especially in the money value of sales. The supplies of stock were good but there was a shortage in many lines compared with last year especially in peonies and other outside stock. The strongest call was for colored carnations probably due to higher prices of other stock. Beauties, teas, longiflorum lilies and other smaller flowers were in good supply. No home-grown peonies were to be had at all, the entire supply coming from Michigan. Numerous weddings and school commencements will keep the retailers busy and create a big demand for flowers the next two weeks. There is quite a scarcity of geraniums in flower, owing to cold dark weather. All kinds of greens are plentiful with exception of good fancy ferns which are nearly unobtainable.

The supply of roses is **NEW YORK** heavier than last week but quoted prices have not undergone any radical change. American Beauties are much more plentiful particularly the shorter sizes. The quality of the Teas is remarkably good and comparatively free from mildew when the bad weather is considered. Carnations are beginning to show up in quantity and the demand has fallen off. In fact, the general business is falling away gradually. There are some peonies, lilacs, and snow balls in the market but not enough to be a factor as yet though a few warm clear days will make a big difference in the receipts of out-door material. Lilies are in good shape and fairly plentiful.

The Decoration **PHILADELPHIA** Day trade in this market exceeded the most sanguine expectations. The cool weather having held back much of the outdoor stock, which usually fills in, threw a strong demand to the regular cut flower centers, with a consequent brisk market and satisfactory prices. Stock in general was scarce. Beauties were mostly all long stemmed; Bridesmaids were improved in color and found themselves in the running with Brides, Gates, Richmonds, Killarneys, and Libertys. Killarney is especially fine at present. Good carnations were bringing Christmas prices. Sweet peas, lily of the valley, daisies, callas, lilies, cattleyas, gladioli, and other staples shared in the general prosperity. The outdoor stock observable this week include hemorcallis, cornflower, iris, deutzia and snowball. The few peonies appearing to date are mostly from south of Washington and bringing high prices. Nothing really fine has been seen in peonies up to this date, but we look for a great improvement in a short time.

Decoration Day business was the best that we have had in years; this is the general report of the trade. Stock was not plentiful and some difficulty was experienced with carnations. It seemed impossible to get a sufficient number with which to fill orders. The growers who were fortunate enough to have them took advantage of the situation and in one case a retailer paid 10c. each for them, in order to fill his orders. The general figure was between \$5.00 and \$6.00 per 100. Roses were plentiful, especially white. The trade did not count on such a heavy business, consequently some were sold out early and compelled to do some skirmishing to fill orders.

Since the severe **WASHINGTON** rain storm of June 1st, it has been cold enough to necessitate constant fires. Carnations continue of unusually good quality, by reason of the cold weather, and prices are correspondingly good. There has not been such a scarcity of flowers on Decoration Day before for years. Everything sold, and at good prices. Outside flowers can not bloom except in very limited quantities, and this, of course, keeps the price of greenhouse blossoms away above normal. Peonies are conspicuous by their scarcity; what few are seen are very small. Some few roses are blooming in the more sheltered places, but not in sufficient quantities to relieve the situation much. A very beautiful and novel feature of Decoration Day was turning loose in the waters of the Potomac a boat-load of flowers, in commemoration of those who lost their lives beneath the waters.

BUSINESS CHANGES.

The business of A. Clarine, Aitken, Minn., is being closed out.

W. O. Willard of Grinnell, Ia., has sold his business to Walter Squire.

Gordon Bros. is the name of an enterprising new firm in Ilion, N. Y.

J. W. H. Sedon has hired the greenhouses of Mrs. Blake, Greenville, Mass.

A. B. Nash has leased the greenhouses of Joseph Slade at Red Deer, Alberta.

J. B. Murphy has purchased the business of the Manistee Floral Co., Manistee, Mich.

The Rosary Flower Shop, 15th below Chestnut, Philadelphia, has filed a voluntary petition in bankruptcy.

John Bauscher, Jr., Freeport, Ill., will soon move from the Fry building to the Blust building which he has recently acquired by purchase.

Miss Bada Schmidt has purchased Mrs. Stafford's interest in the Stafford greenhouses at Marquette, Mich., and will have charge of the business.

Recent losses by hail are reported from Robert Kift and the Mancill greenhouses, at West Chester, Pa.; W. A. Rieman, Vincennes, Ind.; W. B. Davis & Co., Aurora, Ill., and Kidwell Bros., Chicago.

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ROSES			Carnations, Ordinary	1.00 to 2.00	1.50 to 3.00
Am. Beauty, fan and sp.	12.00 to 25.00	12.00 to 25.00	Sweet Peas (100 bunches)	5.00 to 10.00	4.00 to 12.00
" extra.	8.00 to 10.00	8.00 to 10.00	Cattleyas	40.00 to 60.00	40.00 to 60.00
" No. 1.	3.00 to 8.00	3.00 to 8.00	Lilies	5.00 to 8.00	5.00 to 8.00
" Lower grades	1.00 to 3.00	1.00 to 3.00	Cables	5.00 to 8.00	5.00 to 8.00
Bride, 'Maid, Golden Gate, fan & sp	6.00 to 8.00	6.00 to 8.00	Lily of the Valley	1.00 to 3.00	1.50 to 3.00
" " Extra.	4.00 to 6.00	5.00 to 6.00	Gardenias	2.00 to 12.00	2.00 to 12.00
" " No. 1 & lw. gr.	2.00 to 4.00	2.00 to 4.00	Nigronette	1.00 to 3.00	1.00 to 3.00
Liberty, Richmond, fancy & special	6.00 to 10.00	6.00 to 10.00	Lilacs (100 bunches)	15.00 to 25.00	15.00 to 35.00
" lower grades ..	2.00 to 4.00	2.00 to 4.00	Peonies	6.00 to 8.00	6.00 to 8.00
Chatenay, Morgan, fancy and spec.	5.00 to 8.00	5.00 to 8.00	Adiantum .....	.50 to .75	.50 to .75
" lower grades ..	3.00 to 3.00	2.00 to 3.00	Croweanum	1.00 to 1.50	1.00 to 1.50
Killarney, Wellesley, fan. and spec.	6.00 to 8.00	6.00 to 8.00	Smilax	10.00 to 16.00	12.00 to 16.00
" lower grades ..	3.00 to 4.00	2.00 to 5.00	Asparagus Plumosus, strings ..	25.00 to 35.00	25.00 to 35.00
Carnations, Fancy and Novelties ..	3.00 to 4.00	4.00 to 5.00	" & Spren. (100 bchs.)	15.00 to 25.00	15.00 to 25.00

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\$7.50 Case of 10,000 Let us have your standing order for Fern. BOXWOOD 20c lb., 50 lbs. \$8.50

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Madison Square.

New York.

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New York and New Jersey Association of Plant Growers, New York City. President, A. Schultheis; vice-president, F. L. Atkins; secretary, W. H. Siebrecht, Jr.; treasurer, H. C. Steinhoff.

The A. C. Smith Floral Co., Columbus, O., has been incorporated; A. C. Smith, R. B. Smith, E. L. Zimmerman, E. E. Barber, incorporators; capital stock, \$10,000.

The Lumsden Floral Company of Belmont, Mass.; David Lumsden, president and general manager; Thomas F. Fiske, treasurer; Fred M. Goodwin, secretary. Capital stock, \$80,000.

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PER 100.

TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	May 28		June 3		May 27		June 3	
ROSES								
Am. Beauty, Fan. and Sp.....	25.00	to 30.00	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00
" Extra	20.00	to 25.00	15.00	to 20.00	15.00	to 20.00	12.00	to 18.00
" No. 1.....	15.00	to 20.00	15.00	to 20.00	8.00	to 15.00	5.00	to 10.00
" Lower grades.....	6.00	to 10.00	4.00	to 12.00	3.00	to 5.00	2.00	to 3.00
Bride, 'Maid, Golden Gate, F. & S.	8.00	to 10.00	6.00	to 8.00	7.00	to 8.00	8.00	to 10.00
" " " Extra.....	5.00	to 6.00	4.00	to 5.00	6.00	to 7.00	5.00	to 6.00
" " " No. 1 & 1w. gr.....	3.00	to 4.00	3.00	to 5.00	2.00	to 6.00	2.00	to 4.00
Liberty, Richmond, Fan. & Sp.....	6.00	to 8.00	6.00	to 8.00	10.00	to 15.00	8.00	to 10.00
" Lower grades.....	4.00	to 6.00	3.00	to 5.00	3.00	to 10.00	4.00	to 6.00
Chatenay, Morgan, Fan. & Sp.....	8.00	to 10.00	6.00	to 8.00	10.00	to 15.00	8.00	to 10.00
" Lower grades.....	4.00	to 6.00	3.00	to 5.00	3.00	to 10.00	4.00	to 6.00
Killarney, Wellesley, Fan. & Sp.....	6.00	to 8.00	6.00	to 8.00	10.00	to 15.00	8.00	to 10.00
" Lower grades.....	2.00	to 4.00	3.00	to 5.00	3.00	to 10.00	4.00	to 6.00
CARNATIONS								
Fancy and Novelties.....	3.00	to 3.00	3.00	to 4.00	2.50	to 3.00	2.00	to 4.00
Ordinary.....	1.00	to 2.00	2.00	to 3.00	1.50	to 2.50	1.00	to 1.50
MISCELLANEOUS								
Sweet Peas.....	.25	to .50	.50	to 1.00	.40	to 1.00	.75	to 1.50
Cattleyas.....	10.00	to 12.00	12.00	to 15.00	8.00	to 12.00	12.00	to 15.00
Lilies.....	8.00	to 10.00	12.00	to 15.00	8.00	to 10.00	8.00	to 10.00
Callas.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Lily of the Valley.....	1.00	to 2.00	3.00	to 4.00	1.00	to 3.00	2.00	to 3.00
Gardenias.....	1.00	to 2.00	3.00	to 4.00	1.00	to 3.00	2.00	to 3.00
Mignonette.....	1.00	to 2.00	3.00	to 4.00	1.00	to 3.00	2.00	to 3.00
Lilacs (100 bunches).....	2.00	to 4.00	3.00	to 4.00	1.00	to 3.00	2.00	to 3.00
Peonies.....	4.00	to 6.00	3.00	to 4.00	1.00	to 3.00	2.00	to 3.00
Adiantum.....	1.00	to 2.00	1.50	to 2.00	.50	to 1.00	1.00	to 1.25
Smilax.....	12.00	to 15.00	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, strings.....	40.00	to 50.00	50.00	to 60.00	40.00	to 50.00	30.00	to 50.00
" " " & Sprea. (100 bchs.).....	20.00	to 25.00	30.00	to 30.00	25.00	to 50.00	40.00	to 50.00

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Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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R. J. Dysart, 28 State St., Boston.
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ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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AQUATICS

Water hyacinths, \$2.00 per 100.
C. W. Bakewell, Gretna, La.

ARAUCARIAS

A. Leuthy & Co., Roslindale, Mass.
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ASPARAGUS

C. Elsele,
11th and Roy Sts., Philadelphia, Pa.
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Wm. C. Smith, 61st and Market Sts., Philadelphia.
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Asparagus plumosus nanus and Sprengeri, 2 1/2-in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 585 Ellicott St., Buffalo, N. Y.

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Bedding plants, trees, shrubs, conifers, bay trees, etc., every Tuesday and Friday. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

AZALEAS

A. Leuthy & Co., Roslindale, Mass.
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BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

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J. E. Felthousen, Schenectady, N. Y.
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C. Elsele, 11th and Roy Sts., Phila.
Spring Bedding Plants.
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John Scott, Rutland Road & 45th St., Brooklyn, N. Y.

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100,000 Bedding Plants, all sorts. Write for prices. E. D. Kaulback & Son, Malden, Mass.

Spring Bedding Plants in variety at auction every Tuesday and Friday during spring season. Purchases made on order. Mail your bid. N. F. McCarthy & Co., 84 Hawley St., Boston.

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Wm. Elliott & Sons, 201 Fulton St., N. Y.
Tuberous Begonias.

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Begonia Gloire de Lorraine. Extra fine, 2 1/4 inch pot. Leaf cutting \$12 per 100; \$100 per 1000. Delivery May 1st. Julius Roehrs Co., Rutherford, N. J.

BOILERS

Kroeschell Bros., 35 Erie St., Chicago.
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BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BOXWOOD

Anton Schultzeis, College Point, N. Y.
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BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

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A. T. Boddington, 342 W. 14th St., N. Y.
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Richards Bros., 37 East 19th St., New York.
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H. F. Michell Co., Philadelphia.

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Johnson Seed Co., 217 Market St., Phila.
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H. E. Fiske Seed Co., Faneull Hall Sq., Boston.

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A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.

Calla Bulbs.

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James Vick's Sons, Rochester, N. Y.
Import Fall Bulbs.

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V. H. Hallock & Son, Queens, N. Y.
Lilium Auratum.

Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

Price list of native bulbs, tree shrubs and plant seeds now ready. L. E. Williams, Nottingham, N. H.

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H. H. Berger & Co., 70 Warren St., New York.
True Brazilian Fancy-leaved Caladium.

CANNAS

The Conard & Jones Co., West Grove, Pa.
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Cannas, Austria, 3 in., 5 cents, cash. Shippensburg Floral Co., Shippensburg, Pa.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.

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Chicago Carnation Co., Joliet, Ill.
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A. J. Guttman, 43 W. 28th St., New York.
Carnation Imperial and Pink Imperial.

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F. Dörner & Sons Co., Lafayette, Ind.
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Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by Glass.

CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
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W. W. Edgar Co., Waverley, Mass.
Chrysanthemums.

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S. S. Skidelsky, 824 N. 24th St., Philadelphia.

Chrysanthemum Golden Dome.
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Rooted cuttings of October Frost and Fidelity Chrysanthemums. \$5.00 per 100. Frank Shearer & Son, Binghamton, N. Y.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting, 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Wm. H. Moon Co., Morrisville, Pa.
American Arborvitae.

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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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CYCLAMEN.

Giant Hybrids transpl. ready for 2-in. and 3-in., \$3.50 100; \$30.00 1000. Plants grown of seed taken from the cream of my well known strain. Christ. Winterich, Cyclamen Specialist, Defiance, Ohio.

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David Herbert & Son, Atco, N. J.
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V. H. Hallock & Son, Queens, N. Y.

DECORATIVE PLANTS

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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

K. E. Juul, Elizabeth, N. J.
Dracaena Indivisa.

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Anton Schultheis, College Point, N. Y.
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Dracaena terminalis from bench, fine.
\$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, Indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

FERNS

Baur Floral Co., Erie, Pa.
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A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitman.

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Siebrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.

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The F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Nephrolepis Piersoni Elegantissima.

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Philadelphia.

Boston and Scottii Ferns.
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FICUS

Baur Floral Co., Erie, Pa.
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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2
Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St.,
Boston, Mass.

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G. A. Sutherland Co., 34 Hawley St.,
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Koral Mfg. Co., 26 Hawley St., Boston.
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FLORISTS SUPPLIES

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H. M. Robinson & Co., 15 Province St., and
9 Chapman Pl., Boston, Mass.

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Decorative Evergreens.

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J. B. Murdoch & Co., 545 Liberty St.,
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H. Bayersdorfer & Co., 1129 Arch St.,
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Fred C. Weber, 4326-28 Olive St.,
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J. Breitmeyer's Sons, Miami & Gratiot
Aves., Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St.,
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Rd.,
St. Louis, Mo.
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P. J. Hauswirth (Temporary address) 13
Congress St., Chicago.
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William J. Smyth, Michigan Ave and 31st
St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Theodore Miller, 4832 Delmar Bvd.,
St. Louis, Mo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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David Clarke's Sons, 2139-2141 Broadway,
New York.
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W. H. Donohoe, 2 W. 29th St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

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W. H. Ernest, 28th and M Sts.,
Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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FUCHSIAS

Baur Floral Co., Erie, Pa.
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FUNKIA

Funkia variegata clumps, \$6.00 per 100.
H. Pladeck, Elmhurst, N. Y.

GALAX

H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston.
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Michigan Cut Flower Co., 38 & 40 Broad
way, Detroit, Mich.
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Galax. Ask for price on case lots. Scrant-
on Florists' Supply Co., Scranton, Pa.

GERANIUMS

J. E. Felthousen, Schenectady, N. Y.
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R. Vincent, Jr., & Son, White Marsh, Md.
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A. G. Lake, Wellesley Hills, Mass.
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Geraniums, 3 1-2 in., in bud, well branch-
ed and stocky; Ricard, Poltevine, Nutt,
Favorite, Viand and Jaulin, \$6.00 per 100.
Hopkins & Hopkins, Chepachet, R. I.

3,000 S. A. Nutt, 3 in., 3 1-2 in. and 4 in.;
\$4.00, \$5.00 and \$6.00 per 100, cash. Fine
stock. H. M. Totman, Randolph, Vt.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin,
New York.
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Gladioli. Write for leaflet. B. Ham-
mond Tracy, Cedar Acres, Wenham, Mass.

GLASS

Boston Plate & Window Glass Co., Boston.
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GLASS, High Grade, Double Thick Green-
house Glass. Lord & Burnham, 1133 Broad-
way, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham
Special Glazing Nails (Points). Lord &
Burnham, 1133 Broadway, N. Y.

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St.,
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Weathered Co., Box 789, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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S. Jacobs & Sons, 1365-79 Flushing Ave.,
Brooklyn, N. Y.
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Metropolitan Material Co., 1398-1408 Metro-
politan Ave., Brooklyn, N. Y.

D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.

GREENHOUSE CONSTRUCTION

Frank Van Assche, Jersey City, N. J.
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GREENHOUSE CONSTRUCTION. Semi-
Iron Greenhouses, New Truss Houses and
Iron Frame Houses. Lord & Burnham,
1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B.
Improved V Shaped Gutter with drip gut-
ter attachment. Lord & Burnham, 1133
Broadway, N. Y.

In writing to Advertisers kindly mention Horticulture

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston, Mass.
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Crowl Fern Co., Millington, Mass.
Fancy and Dagger Ferns.
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The Kervan Co.,
20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 & 40 Broad-
way, Detroit, Mich.
Fancy Ferns.
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E. A. Beaven, Evergreen, Ala.
Fadecss Sheet Moss.
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A full line of ferns, galax, and all wild
greens. N. F. McCarthy & Co., 84 Haw-
ley St., Boston.

HARDY PERENNIALS

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Johnston Heating Co., 1133 Br'dway, N. Y.

HORSES

Useful work-horses for florists' spring
work; also florists' delivery wagons, good
as new. Edward Higgins, 1 West 28th
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INSECTICIDES.

Nicoticide kills all greenhouse pests.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LIVISTONIAS

Livistonia Rotundifolia. Well leaved and
clean, \$6, \$9, \$12 per doz. Julius Roehrs Co.,
Rutherford, N. J.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in.
stock, \$2.00 per doz. Julius Roehrs Co.,
Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MISCELLANEOUS PLANTS.

	Per 100
200 3 1-2 in. pots Rose Geraniums..	7.00
2000 3 12 in. pots Geraniums.....	7.00
2000 2 1-4 in. pots Glechoma and Ger-	
man Ivy	2.00
25,000 strong transplanted Asters, leading	
sorts, 75c. per 100, \$6.00 per 1000.	
200 Veneta Variegated, 3 1/2 in.....	6.00
500 Alternanthera Brilliant, 2 1/4 in..	2.00
Cohanzie Carnation Greenhouses,	
New London, Conn.	

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Godfrey Aschmann, 1012 Ontario St., Phila.
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MOSCHOSMAS

Moschosma riparium, a valuable new
Christmas flowering plant. Write for de-
scriptive circular and price list. Chas. H.
Totty, Madison, N. J.

NIKOTEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.
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PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse
Lead; Special Greenhouse Putty. Lord &
Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Large, strong transplanted Pansy Plants.
Dreer's Royal Exhibition and Vaughan's
International, \$1.00 per 100; \$7.50 per 1,000;
smaller transplanted, \$5.00 per 1,000. Send
for sample and price list of other plants.
Frank Shearer & Son, Binghamton, N. Y.

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PEONIES

Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

RAFFIA

Raffia, prime long fiber, sound and strong, ten cents the pound, nine dollars the hundred pounds; terms cash. A. Rolker & Sons, New York. P. O. Box 759.

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Low-budded roses, No. 1, \$95.00; No. 1-1-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

1500 American Beauty Plants in 4 in. pots, at \$10.00 per 100; \$80.00 per 1000. Address John Klotzmann, Madison, N. J.

Roses, Bride, Bridesmaid, Ivory, 2 1-2 in., shifted from 2 in., \$3.00 per 100; \$25.00 per 1000. Wm. B. Sands, Lake Roland, Md.

The beautiful new pink rose, MISS KATE MOULTON is the queen of all pink roses. It's a winner and you should grow it. Price \$30.00 100; 500 \$125.00; 1000 \$200.00; 5000 and upwards \$175 per 1000. Minneapolis Floral Co., Minneapolis, Minn.

Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1-4 in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

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H. E. Fliske Seed Co., Faneuil Hall Sq., Boston.
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I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

Surplus Garden Peas—50 bu. Alaska, \$3.25 per bu.; 40 bu. First and Best, \$2.00 per bu. New crop northern Michigan grown; none better. W. F. Allen, Salisbury, Md.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston.
Pulverized Sheep Manure.
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E. A. Beaven, Evergreen, Ala.
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SMALL FRUIT PLANTS

Dewberry plants, Lucetta and Austin, \$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00 per 1000, \$25.00 per 5000; Turner red raspberry plants, \$6.00 per 1000, \$25.00 per 5000. W. F. Allen, Salisbury, Md.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.
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STRAWBERRY PLANTS

Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

VEGETABLE PLANTS

50,000 small horseradish sets, 25c. per 100; \$2.50 per 1000. S. J. McMichael, 142 Larkin St., Findlay, O.

50,000 large 4-year old Barro Mammoth Asparagus roots, \$6.00 per 1000; \$25.00 per 5000. (5000 will fill a sugar barrel.) Address W. F. Allen, Salisbury, Md.

We can furnish Strawberry plants and Asparagus roots from April first to December first. Spring prices hold until August first. Hitchcock's Nursery, Agawam, Mass.

2,000,000 strong, healthy cabbage plants; fine roots, All Head Early, Danish Ballhead, Succession, Early Summer, Early Jersey, Wakefield; \$1.00 per 1000; \$4.00 per 5000. F. W. Rochelle, Drawer 20, Chester, N. J.

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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 28-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

All standard frames in stock. Special designs made to order in hurry-up time. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

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BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

HORTICULTURE needs a wide-awake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

WANTED—An experienced assistant in our greenhouses. Must be well recommended and temperate. J. Newman & Son Corp'n, Beacon St., Winchester, Mass.

WANTED—First class gardener for a commercial house. Must be a good grower of Chrysanthemums, Asparagus, all varieties of ferns, all classes of bedding stock, and a good designer of Floral work. Able to take complete charge of 25,000 ft. glass, and 10 acres of land. Address, stating wages expected, and references. E. A. Butler & Son, Niagara Falls, N. Y.

WANTED—Good active young man, experienced in rose growing under glass. Good salary. Address B, care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATIONS WANTED

WANTED—Situation as Head Gardener on private place; capable of taking care of orchids, ferns, palms, roses, etc. Best of references. Address N., care of HORTICULTURE.

POSITION WANTED by energetic American as outdoor foreman in park or cemetery. Age 35, single; can work from blue print. References. Address Foreman, care HORTICULTURE.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

FOR SALE

A BARGAIN

FOR SALE—7 1/2 miles from Boston; one acre of land, seven roomed cottage, lawn and fruit trees, 4 greenhouses; electric cars pass place. Good neighborhood; fine property for building lots. Land, which is worth price asked for whole place, is triangular, two sides on streets. Come and see. J. ASTLE 6 Perkins St., Melrose Highlands, Mass.

FOR SALE—Greenhouse Pipe

4-in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

FOR SALE—Second hand 4 in. cast iron pipe for greenhouse heating, five-foot lengths. 10 cents per foot, F. O. B. Exeter Machine Works, Exeter, N. H.

BUSINESS CHANCES

WANTED—To sell my interest in a good wholesale and retail florist business, 10,000 feet of glass, one acre of good land, within 10 miles of Boston; early market trains handy. Address L. A., care HORTICULTURE.

PRICES QUOTED IN THESE COLUMNS ARE FOR DEALERS ONLY When Writing to Advertisers Please Mention Horticulture

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Belmont, Mass.—B. M. Jones, one house.
Saco, Me.—G. L. Mahoney, one house.
Menasha, Wis.—J. B. Froehlich, two houses.
Stockton Springs, Me.—Mrs. Follett, one house.
Geneva, O.—Parker & Woodworth, range of houses.
Glens Falls, N. Y.—H. L. Crandell, one rose house, 30x100.
Toronto, Can.—Bedford Park Floral Co., two houses, each 300 feet.

Additions.

Whitman, Mass.—W. B. Bowen, addition.
Westbrook, Ct.—E. P. Stannard, extensions.
San Francisco, Cal.—Rolleri & Co., additions.
Chicago, Ill.—Johnson & Chronis, three houses.
Maynard, Mass.—Albert Batley, one house, 48x140.
Irvington, Md.—Lohr & Fritz, one house, 35x150.
Woburn, Mass.—Jas. Philbrick, one house, 40x200.
Madbury, N. H.—W. H. Elliott, addition 1200 feet.
Jamestown, N. Y.—Thomas Russell, range of houses.
Attica, Ind.—Attica Florists' Co., one house, 20x75.
Ft. Wayne, Ind.—Miss Flick, four carnation houses.
Newtonville, N. Y.—Warner Bros., one house 32x107.
Westerly, R. I.—S. J. Reuter, one rose house, 35x500.
Brandywine Summit, Pa.—A. Harvey & Sons, two houses.
Baltimore, Md.—Johns Hopkins University, one house, 24x100.
Newark, O.—W. S. Weiant, 15 vegetable houses, each 300 feet.
Sandy Hill, N. Y.—J. L. Watkins & Son, one carnation house, 30x100.
Rochester, N. Y.—J. B. Keller's Sons, extensions; Salter Bros., additions.
Morgantown, W. Va.—W. R. P. Stewart, carnation house and rose house.

LIST OF PATENTS.

Issued May 21, 1907.

653,961. Plow. Joseph H. Click, Bridgewater, Va.
854,165. Planting Mechanism. Neely B. Hodge, Dallas, Texas.
854,317. Automatic Spray. William Tyree, Nelson, New Zealand.
854,423. Traction Gang Plow. Charles J. Johnson, Lanham, Tex., assignor of one-half to James J. Lumpkin, Meridian, Texas.

PERSONAL.

Visitors in Boston this week: W. C. Langbridge, of Jerome B. Rice & Co., Cambridge, N. Y.; A. C. Polman-Mooy, Haarlem, Holland; C. C. Laney, superintendent of parks of Rochester, N. Y.; G. C. Eldering, Overveen, Holland.

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MOVEMENTS OF GARDENERS.

Frank Warrington, formerly gardener to I. C. Baldwin, Falls Church, Va., is now located at Mt. Kisco, N. Y.

Andrew Morrison, lately gardener for Curwen Stoddart, Jr., Rydal, Pa., has moved to Los Angeles, Cal.

Alex. Lamont is superintendent of the estate of C. H. Hutchins, recently purchased from Mrs. P. W. Moen, at Shrewsbury, Mass.

CATALOGUES RECEIVED.

Hitchcock's Nursery, Agawam, Mass.—List of small fruits, cabbage plants, etc.

"Perfect Greenhouse Construction" an album of 100 pages by the John C. Moninger Company, Chicago, has come to hand. There are 60 full page half-tone views of greenhouse ranges furnished by this enterprising company and the remainder are blue prints, diagrams, etc., of equal interest to any one concerned in or contemplating the erection of greenhouses. The covers are illustrated in colors. Send for this catalogue and we think your conception of the extent of the greenhouse industry in America will be much enlarged.

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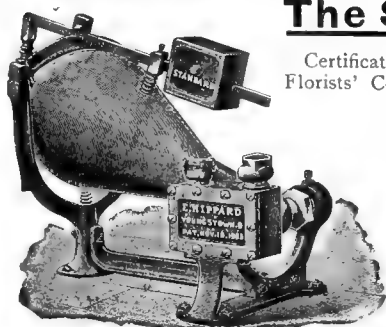
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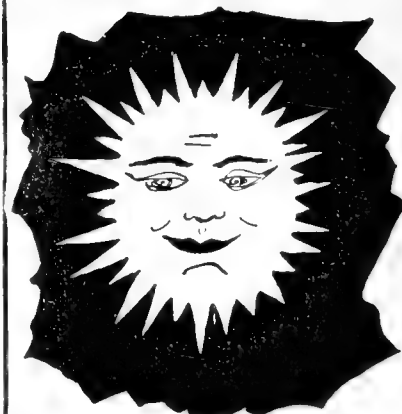
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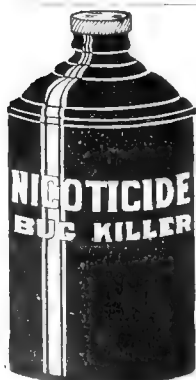
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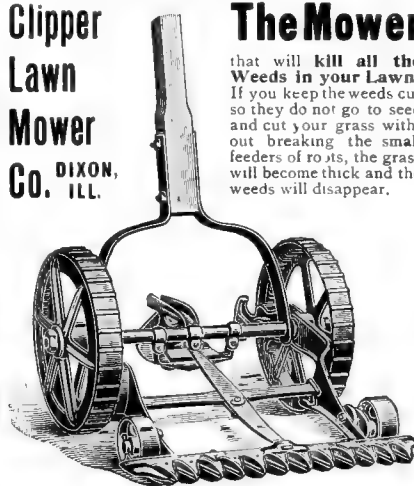


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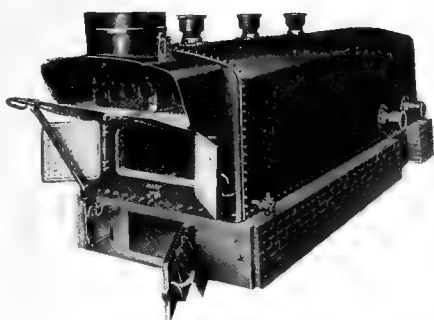
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HORTICULTURE

Vol. V. JUNE 15, 1907 No. 24



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The Modern Herbaceous Border

ITS ADVANTAGES

To most persons there is no kind of gardening that gives as much pleasure as a properly planted and thoroughly conducted herbaceous border. The old-fashioned border where only perennials were used with probably one or two kinds of lilies is a thing of the past.



Bulbs Blooming in Herbaceous Border in Early Spring.

The modern border must contain a liberal supply of all kinds of bulbous plants and all sorts of hardy herbaceous plants which will give a continuous show of blossoms from early spring until the end of October. The charm of a border like this is its changeableness. One has not to look at the same picture for more than one week or sometimes for not more than one day. There is a continual changing of flowers. Right here is where the herbaceous border has the advantage over the bedding system.

Not only is the frequent changing of the flowers of special interest, but in early spring to a keen observer the color effects of the young foliage and stems are quite conspicuous and very interesting. The herbaceous border comes nearer nature's way of doing things than the bedding system, hence the reason we enjoy it so much.

No doubt a herbaceous border is more attractive and gives more satisfaction when it has a suitable background. A background of shrubbery is always pleasing, but such a background is not always procurable. There is one precaution which one should always take and that is to see that the border is not near large trees. Otherwise there is sure to be failure and disappointment. The roots of the trees get into the border and steal the food from the plants. The strong-growing kinds soon grow weak and sickly and fail to give the show of flowers they were expected to produce. The outline of the border is not of so much importance, but the one that gives the most satisfaction is one where the lines are uneven or sinuous.

PLANTING

In making a border we are always careful to dig the ground as deep as possible, two to two and a half feet deep. We incorporate into the soil as much rotten stable manure as can safely be put into it. We like stable manure much better than commercial fertilizers as it is more lasting and gives better results. The reason the soil is made so rich at the start is that the

border after it is planted is not disturbed again for at least four or five years. The only safe way to enrich the border during this long period is to give it a liberal top dressing, late in the fall, of well-rotted stable manure. The snow, frost and rain will wash most of the top dressing into the soil before the plants begin to grow. In spring when the soil needs loosening a fork should be used in place of a spade.

Many people make a great mistake when they imagine that herbaceous plants when once planted will take care of themselves afterwards. There is no class of plants that I know of will give good results if constant attention is not paid to them. Herbaceous plants are just like other plants; their wants and needs must be carefully looked after.

In planting our borders we try to get the tallest plants near the back and are careful not to get plants of the same height to follow one another, as an uneven line when the plants are fully grown is much more pleasing. We work the smaller plants to the front where they have not to struggle with the tall-growing kinds, and as they are mostly all lovers of sunshine, in such a position they have a much better chance to get sufficient light.

Of late years we have adopted the system of setting the large plants in the back rows about four feet apart and in the spaces between we grow large colonies of bulbous plants such as tulips, narcissi and fritillarias. In the front rows between the herbaceous plants we use scillas, chionodoxas, crocuses, snowdrops and grape hyacinths. In early spring, before the herbaceous plants have much more than made their appearance above the ground, the tulips, narcissi, scillas, chionodoxas and grape hyacinths are in full bloom. I have failed to meet any person who has not been



Fritillarias.

pleased with this system of planting when it is properly done.

EARLY SPRING BLOOMING BULBS

The following is a list of the plants as they have blossomed in the border during April and May of the current year. The first to open their flowers were the

snowdrops. The kinds which give the best results in the front row of the border are the common snowdrop (*Galanthus nivalis*), the Crimson snowdrop (*Galanthus plicatus*), and the giant snowdrop (*Galanthus Elwesii*). The flowers of the last species mentioned have a patch of green at the base of the petals. These snowdrops, the harbingers of spring, are not expensive now and ought to be planted in colonies large enough to make a show. Very soon after the snowdrops the crocuses put in their appearance, the yellow kinds coming into blossom first, followed quickly by the light blues. The following kinds are the best for border work: In white, Caroline Chisholm, Mammoth White and Mont Blanc are the most pleasing; in striped crocuses, Albion, Cloth of Silver and Sir Walter Scott are good; the best yellows are Golden Yellow and Cloth of Gold, and the most satisfactory of the blues and purples are Baron Von Brunow, King of the Blues and *purpurea grandiflora*.

The early squills are charming; their blue flowers dazzle in the early spring sunlight. The Siberian squill (*Scilla Sibirica*) and its white form are the best. *Scilla bifolia* has not as large flowers as the Siberian squill and they are of a different shade of blue; although the flowers are smaller they are produced very abundantly. The *chionodoxas* that do well are *Sardensis*, *Lucilæ* and *Lucilæ* variety *gigantea*. This fine variety *gigantea* is a much stronger growing plant, has much larger flowers and a most pleasing shade of blue.

Owing to the lateness of the season very few narcissi blossomed until near the end of April this year. The established plants always come into flower first; that is the bulbs that have been in the ground for several years. Those that were planted late last fall came into blossom much later. There is no doubt if we had our beds and borders ready in August for the narcissi that they would be much better in the soil at that time. When planted late they make very few roots until spring. However, any one who wishes to lengthen out the season of blossoming should plant some bulbs each year late in October.

It is very unusual to have narcissi in bloom as late as Memorial Day and if the weather still continues cool we shall have them for a week or more in June. The following kinds were planted late in October and are in bloom today, May 31st. This list will be of interest in years to come to show the lateness of this exceptional season. In yellow trumpet varieties we have Ard Righ, Golden Spur, *Rugilobus Maximus*, and Emperor; bicolor trumpet varieties, Empress, Grandis, *Horsfieldii*, and Princes; *Incomparabilis* varieties Figaro, Queen Bess, Frank Miles, Sir Watkin and Cynosure; Leeds varieties, Leedsii and Minnie Hume. Other varieties, *Barrii* conspicuus, *Burbidgei*, and *poeticus ornatus*. These narcissi make charming border plants and should not be disturbed often.

Of tulips the single varieties and the species are the most pleasing. Double tulips are too stiff and formal for the mixed border. Parrot tulips we do not care for as border plants; their stems are too weak and they do not hold up their large gorgeous flowers in pleasing way. The following are all showy and effective and keep on increasing in the border: Belle Alliance, *Chrysolora*, Duchesse de Parma, Yellow Prince, La Reine, Pottebakker Scarlet, Prosperpine and Vermilion Brilliant.

The May flowering Cottage tulips are exceptionally valuable as border plants and they contain some beautiful gems. The kinds we have grown for several years and which are the most satisfactory are Bontou D'Or,

Gesneriana, Gesneriana *Spathulata*, Golden Crown, Golden Eagle, Isabella, Picotee, May Blossom, White Swan, Summer Beauty, Bizarres, Bybloemens and Roses.

Out of a number of Darwin tulips we planted in the border five years ago the following are in bloom now: Glory, Gustave Dore, Herold, Hippolyte, Liberia, Longfellow and Olga. The extraordinary length of stem and their distinct and peculiar colors are bound to make them general favorites especially as border plants.

Some of the species that are showy and effective are Batalini, *Clusiana*, *Didieri*, *Grergi*, *Oculis-Solis*, *Persica*, *præcox*, *sylvestris* and *vitellina* and *retroflexa*.

EARLY BLOOMING HERBACEOUS PLANTS

Very few of the herbaceous plants in the border blossomed this year in April. With the slightly advancing temperature in the early part of May we had a splendid show of flower. The flowering season of the early kinds has been exceptionally prolonged this season owing to the coolness of the weather. *Arabis albidia*, *Phlox subulata*, *P. procumbens* and *P. Stellaria* flowered most profusely. A charming yellow flowered plant is *Adonis vernalis*. This plant is rather scarce and ought to be



Broad-leaved Saxifrages.

seen in collections more frequent than it is now. *Aubrietia deltoidea* and *polemoniums* are fine for shades of blue. The globe flowers are valuable on account of their soft, pleasing shades of yellow. The most satisfactory are *Trollius Asiaticus*, *Europæus* and *Japonicus* variety *Excelsior*.

The large broad-leaved saxifrages are bold and imposing plants. The kinds we grow are *cordifolia*, *crassifolia* and *ligulata*. Near the front of the border *Veronica gentianoides* and *Orobis vernus* lend shades of color which are pleasing at this time. The finest columbine is a natural hybrid between *Aquilegia cærulea* and *A. vulgaris*. This plant does not deteriorate like some of the columbines. We have grown it five years and it seems to get stronger each year.

Dicentra spectabilis is one of the most pleasing plants; it is thoroughly hardy and reliable. Its pleasing color, gracefulness and other good qualities make it one of the most valuable plants for the border. *Lychnis lapponica* is a new plant that promises to be a favorite. It grows only about six or eight inches in height and is now completely covered with its cluster of pink flowers. The forget-me-nots that we like the best for border use are *Myosotis sylvatica* and *Myosotis*

sylvatica variety alba. These are more graceful and airy than many of the stiff, flat kinds one often sees.

Viola cornuta and its white variety are valuable early plants and so are the varieties *Administration* and *White Perfection*. Clumps of English primroses and polyanthus are always pleasing and fascinating.

The only pæonies in bloom are *anomala*, *tenuifolia*, *tenuifolia hybrida*, *arietina*, and *Barri*. The large single flowers and the nicely cut leaves of these early flowering species are quite attractive. Irises in bloom are *pumila*, *olbiensis*, *olbiensis* variety *sulphurea*, *nudicaulis*, *florentina* Germanica variety, *Purple King* and *cristata*.

Good practical advice at this time is to keep the hand fork busy weeding out switch grass and other obnoxious weeds which are sure to be annoying. Now is an opportune time to begin to take notes of plants that are wrongly placed so that they can be moved in fall to places where they will make more pleasing combinations of color.



British Horticulture

THE STRAWBERRY CROP

The unfavorable weather which has marred the opening of the summer has caused a great deal of anxiety amongst strawberry growers, particularly those who are growing for the early market. A correspondent in "Garden Life" points out that in America it is a common practice to apply after flowering a dressing of nitrate of soda at the rate of about a hundred weight per acre, and as it has been shown by Dr. Dyer's experiments that artificial fertilizers not only increase the crop but also hasten its ripening he suggests that the practice might with advantage be adopted in Britain. The writer also shows that apart from late frost the strawberry is fortunately not exposed to many risks. There are two fungoid diseases by which it is sometimes attacked—mildew, easily recognized by the white threads which spread over the foliage and fruit, and leaf blight, distinguished by red patches on the leaves. Both may be cured by spraying with Bordeaux mixture. Amongst insects, the most troublesome are red-spider, chiefly under glass where the plants have been kept too dry, and several of the ground beetles. The latter eat the seeds, and in consequence the fruit instead of swelling is small and hard. These beetles are usually trapped by means of tins half filled with sugar and water sunk to their brims between the rows in different parts of the bed.

A VISIT OF FRENCH HORTICULTURISTS

A party of French gardeners took advantage of an excursion arranged by a trade society this week and visited London, where they were accorded a genial welcome. They visited the great Temple show on the second day, and were delighted with the magnificent display. The staging of the plants evoked their warmest admiration. A hearty greeting was extended by the officials of the Royal Horticultural Society. After making a tour of the tents the visitors saw the chief

places of note in the Metropolis, including the parks and the famous Kew Gardens, whilst some of the party sampled the eloquence in the House of Commons, and exchanged compliments with some of the members of Parliament who are interested in promoting a good feeling between Britain and France. In the evening the inevitable dinner took place, the visitors being the guests of British nurserymen. There was a pleasant interchange of good wishes between representatives of the two countries. Many of the British nurserymen retain happy recollections of the kindness they have received when making a tour of inspection in France, and the present visit afforded a splendid opportunity for showing their gratitude. Altogether the trip was a great success, and the Parisians returned with very pleasant remembrances, besides being impressed with the high standard reached at our premier show.

A SALE OF ORCHIDS

An important sale of orchids belonging to the late Sir Frederick Wigan, recently took place in London, with very satisfactory results, the total realized being about £4,000. There was a good attendance of buyers, amongst whom there was a great keenness to secure lots, especially for the white cattleyas, and the remarkable hybrids. Three plants of *Miltonia vexillaria Memoria G. D. Owen* realized 500 guineas, 420 guineas, and 390 guineas, respectively. *M. v. alba* made 38 guineas. *Cattleya labiata alba* sold for 66 guineas, *C. l. Cooksoniae*, 72 guineas; *C. Mossiae The Queen*, 21 guineas; *C. M. Wagneri*, 28 guineas; *C. Schroderae alba*, 27 guineas. A good type of *Sophrocattleya Doris* made 40 guineas, whilst a smaller plant realized 13 guineas. A fine specimen of *Cymbidium Devonianum* sold for 32 guineas. *Megaclinium falcatum*, 6 1-2 guineas. Some of the smaller plants made good prices. There was a keen competition for the rose-blotched *C. bellatulum Princess Clementine*, which went for 44 guineas. The high prices which prevailed indicate that there is no decline in the value of the best kinds of orchids, and that there is still an unlimited demand for some of the choicest specimens in spite of the high value placed on them. The cult of the orchid is as flourishing as ever, although for the rarer specimens orchid growing must remain the hobby of the rich. There is a remarkable fascination in the collection of the rarer specimens.

CHRYSANTHEMUM AND CARNATION SHOW

At the next market show, arranged under the auspices of the National Chrysanthemum Society, a new departure is to be made in the shape of carnations. There are several market florists who cultivate tree carnations to perfection, and there should not be any difficulty in arranging a good display. The committee making the arrangements include Mr. A. Smith, the raiser of Britannia. In the chrysanthemum section prizes will be offered for exhibits of market growers, nurserymen and commission salesmen. Special awards will be made from the best novelty not in commerce, the best packed two boxes of market bloom, and the best memorial design of chrysanthemum blooms. In the carnation section prizes will be awarded for a collection of winter-flowering carnations in vases to fill a table space of 8 ft. by 3 ft. also for 36 blooms of various tints.

W. H. Adsett.

HORTICULTURE

VOL. V

JUNE 15, 1907

NO. 24

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.
11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; To Canada, \$1.50

ADVERTISING RATES

Per inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;

six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass. under the Act of Congress of March 3, 1879.

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Horticulture takes the lead

Attention is called in the columns of our New York contemporary to the "improvement, contemplated and current" instituted by our Canadian contemporary in the exclusion from its reading columns of cheap jokes and personal comments "such as those that disfigure the columns of some of the United States trade papers." We agree with our friend in New York that this is a sensible course. We also respectfully call

attention to the fact that HORTICULTURE was the first to take the step in the direction of a more elevating and dignified range of reading matter. We are glad to see our neighbor across the line following in HORTICULTURE's footsteps in this reform. As in its case, "a few florists have found fault with this policy," but we think it is now pretty evident to all observers that no mistake was made. We note with pleasure the improvement more or less noticeable in the reading material handed out by our three older contemporaries since it became evident that HORTICULTURE's policy was meeting with widespread approval and it was demonstrated that a florists' and gardeners' paper could find ample support without limiting its contents to the calibre of the least intellectual of its readers. Let the good work go on.

The nurseryman and his sphere

In another column we present the annual address of President Harrison before the American Association of Nurserymen, in session at Detroit this week. It is an interesting document containing much food for thought on the part of workers in other departments of culture as well as of the nurserymen. On this occasion we would mention but one point in Mr. Harrison's address, and that in the way of friendly criticism. He seems to have overlooked that sturdy department of the nurserymen's trade which has shown such a marvelous growth of late years and offers so much of promise for the future—the ornamental section, trees and shrubs which are planted mainly for their beauty and their shade. Consistently with this omission, in his favorable comments on the horticultural press, we note that the fruit grower and the farmer, the fruit and farm papers only are recognized. He then says, with truth, that "the nurserymen are the poorest advertisers and it is our own fault." We would respectfully submit that so long as the nurseryman persists in his assumed indifference towards that horticulture which is today showing the greatest progressive vitality, just so long will the above criticism by the president of his Association hold good.

The horticulturists' interest in nature

We are pleased with the approving response accorded by our readers to our recent appeal on behalf of our forests and the wild creatures which Nature ordained should do a large share towards maintaining those conditions needed to make the world a comfortable and luxuriant abiding place for mankind. We are told that it was man's own folly that lost to him forever the beautiful Eden which had been given him for a home, yet the lesson seems to have been wasted on us, for despite all our assumption of intelligence we are surely disobeying in the most flagrant and reckless manner natural laws which are inseparable elements of our existence—laws as inexorable as that which exiled Adam and Eve from their garden habitation. Where shall we look if not to the horticulturist, closeted as he is with Nature in all his operations and interests, for earnest pioneer work in awakening the country to the impending calamity, the burden of which already begins to weigh upon us? When we reflect that within the past year or two an organization of fruit growers and farmers has petitioned a State legislature for the right to exterminate the robin, the ignorant Italian and his mania for bird-killing should not surprise us but rather bring us to a realization of the magnitude of the task ahead before a healthy public sentiment can be fully developed. The two communications on another page of this issue are timely. Let us have some more of the same kind.

The Tomato

This vegetable is constantly advancing in importance as a garden product. This fact has induced a large degree of patient application in hybridizing, with a view to producing new and improved varieties, and many kinds, with some points of superiority, have been brought out within the past few years. Among the generally recognized points of merit in the tomato are,



earliness, smoothness, flavor, and solidity or fleshiness. To combine these in the greatest degree is the aim of those attempting to produce varieties that will be better than their predecessors. Of these qualities, earliness is especially essential to the market gardener, for the reason that, by the ordinary mode of forwarding for ten or twelve weeks by means of hot-beds, or forcing houses, late varieties perfect scarcely half their crop while the earlier kinds ripen all their fruit during the summer months, and a large proportion before the markets have become over-supplied and the price scarcely remunerative.

WORKING FOR EARLINESS

Earliness in the tomato may be induced by selection, and also by acclimation. Growing successively from seed of the earliest ripened fruit will produce favorable results, and when this is combined with acclimation to high latitudes, a difference of several days in the earliness of a given variety may be obtained. Solidity, or fleshiness, which is more peculiar to the medium and late varieties, must be reproduced in earlier forms mainly by hybridization. To the accomplishment of this result the efforts of many cultivators have been directed for a series of years. New varieties in great numbers have been introduced to the public through the seed-growers and dealers of the country, while many of various degrees of merit pass unnoticed, or have only had a local introduction.

STANDARDS INFLUENCED BY LOCAL CONSIDERATIONS

It would seem useless to multiply varieties unless the acme of perfection could be reached, and a kind produced that would prove to be in advance of the present standard sorts, although it must be borne in mind that there is a great diversity of tastes, influenced, no doubt, by local considerations. In the southern States, late varieties, with fruit of large dimensions, are much in favor; while in the neighboring Dominion, the earliest only are popular or productive. The canning trade, which has attained large proportions, calls for kinds of tolerable smoothness and solidity.

The fruit put out by market gardeners, generally, is not as good as one might expect, owing to the fact that a good deal of poor seed is saved and used. Too many growers of seed sell their earliest and best fruit; indeed

continue to sell as long as it will pay to gather for the purpose, then the late and ill-formed are ground up for seed, to be sold cheap. Tomato-growers should save their own seed from the earliest and most perfect specimens, or buy of those who have consciences, as well as a thorough knowledge of their business, and never grumble at the price. Wait for the crop, and then, if it is not good, scold.

A BIT OF TOMATO HISTORY

The prevalent impression that tomatoes were not known to be edible more than eighty years ago, is thus accounted for by an authority:

"Seed of the Tomato, in all probability, got into some region where nobody knew what it was. People sowed the seed and saw that the plant produced a beautiful fruit, and so they adopted it for ornamental purposes, not knowing it to be edible; and having no name for it, they, since all things must have a name, called it a 'Love-apple.' Then some writer wrote it up and gave it notoriety as the 'Love-apple,' and thus the impression of its non-edible character became general, even working its way and taking possession, as a matter of history, in regions where the tomato had been so long and favorably known as an edible fruit."

H R Peachey.

Irondequoit, N. Y.

Heating Orchards

HORTICULTURE of May 14, 1907, contains an article on "Spring Fruit Protection" which is interesting, showing how smudges made of leaves, sawdust and the like help control the frost situation in Germany. Here in California I recently ran across an experiment tried in an almond orchard of twenty-six hundred trees which presents some features worthy of consideration.

The orchard is located on low ground in a cold situation about four miles out of the town of Chico and for several years past has lost its crop because of late frosts. This year the owner, a progressive doctor, decided to see what could be done towards controlling conditions there. He obtained a number of cans made like coffee pots, that is small end up, capable of holding each about three quarts of crude oil. On the night of March 11 the thermostatic arrangement in the orchard sounded a warning gong as the temperature dropped to the danger point. Hastily turning out, the men set the oil on fire—the cans having been arranged previously—by means of a teaspoonful of gasoline placed on top and lighted. Six hundred and thirty-five cans were used for the twenty-five acres and were burned for one and one-half hours, consuming in that time approximately one quart of material each. The oil made a flame five inches in diameter and one to two feet high, actually heating the orchard. When the critical period was passed the flame was shut off by putting on tin covers.

The pots were supplied with two three-eighth inch holes, on opposite sides near the top to act as safety valves. In all eighty gallons of oil was burned at a cost of two and one-half cents a gallon, this amount raising the temperature four degrees and safely tiding the trees over. The only defect is that the firing wasn't started quite early enough, the temperature being perilously close to the danger point when the last pots were fired. This could be overcome by having an alarm sounded at two or three degrees above freezing. In this case the experiment was a success although nearly 28 degrees was reached before morning.

R. S. Adams.

NEWS OF THE CLUBS AND SOCIETIES

MASSACHUSETTS HORTICULTURAL SOCIETY.

The most striking feature at the Massachusetts Horticultural Society's exhibition on Saturday, June 8, was a remarkable collection of seedling tree peonies from Prof. C. S. Sargent. The pleasing colors and size of the flowers were something very unusual.

R. & J. Farquhar's wistarias in tubs were very fine and were a great attraction, as was the collection of tulips from the same firm, which included many very fine varieties of Darwin and other late flowering kinds. The most notable in the collection were large vases of *Tulipa Picotee*, *Gesneriana* and *Bouton d'Or*. *Aquilegia coerulea* and *gladulosa* were very fine amongst their herbaceous plants.

The Blue Hill Nurseries had a fine collection of herbaceous plants, the best thing being large vases of the different kinds of *trollius*.

The Botanic Garden, Harvard University exhibited all the different types of tulips such as: Bizarres, by-bloemens, roses, breeders, Darwins and a number of species of late flowering kinds.

The new hybrid shrubby *Calceolaria Stewartii* was exhibited again by James Crosbie, gardener for Mr. Tufts of Medford. The specimens were exceptionally well grown. The same exhibitor had a remarkably well grown plant of *Clerodendron Thomsonae*.

J. E. Rothwell made a superb display of orchids, filling ninety-five vases.

The opening of the exhibitions on Sundays to the public proved very attractive, and the large hall was so crowded that it was almost impossible to take notes there.

Prize Awards.

Awards for Plants and Flowers—Wistarias, R. & J. Farquhar & Co. Hardy Azaleas, 1st, Wm. Whitman; 2d, Mrs. A. W. Blake. Tree Peonies, Wm. Whitman. Hardy herbaceous flowers, 1st, Blue Hill Nurseries.

Silver Medals—R. & J. Farquhar & Co., *Spiraea Japonica* "Queen Alexandra"; Prof. C. S. Sargent, display of seedling Tree Peonies.

First-Class Certificate of Merit—James Crosbie, superior cultivation of *Clerodendron Balfourii*.

Honorable Mention, Prof. C. S. Sargent, *Syringa pubescens*; Dr. C. G. Weld, lily of the valley.

Awards for Vegetables Asparagus, 1st, Geo. F. Wheeler; 2d, W. J. Clemson; 3d, A. E. Hartshorn. Carrots, 1st, W. W. Rawson; 2d, A. E. Hartshorn. Cucumbers, 1st, Geo. D. Moore; 2d, W. W. Rawson; 3d, A. E. Hartshorn; 4th, W. J. Clemson. Lettuce, 1st, W. W. Rawson; 2d, Geo. D. Moore; 3d, Wm. Whitman; 4th, W. J. Clemson. Radishes, 1st, W. W. Rawson; 2d, W. J. Clemson; 3d, A. E. Hartshorn. Rhubarb, 1st, Geo. Page; 2d, W. J. Clemson; 3d, A. E. Hartshorn. Spinach, 1st, W. Heustis & Son; 2d, Geo. D. Moore; 3d, W. J. Clemson. Collection of vegetables, 1st, W. J. Clemson.

NEW HAVEN HORTICULTURAL SOCIETY.

At the meeting of this society on June 1 Arthur Grave, of the Sheffield Scientific School was the speaker of the evening. William Beattie exhibited the first lettuce of the season which weighed 24 ounces. The preliminary schedule for the November flower show can now be obtained.

PITTSBURGH AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The club met on June 4 with a good display of flowers and good attendance of members for the season. The Finleyville Floral Co., of Finleyville, Pa., showed an extra fine lot of carnations. Dr. Shafer showed through James Hutchinson, *Cypripedium Lawrenceanum* and *Odontoglossum Ruckerianum*. While there are no commercial orchid growers in Pittsburgh or vicinity Mr. Hutchinson sees no reason why orchid growing here for commercial purposes should not be a success if carried on outside the pale of Pittsburgh's smoke and soot. Fred Bartsch showed a choice collection of geraniums.

G. J. Learzaf showed a geranium, sample of quite a portion of his stock, in which the leaves dry up and wither away beginning at the edge, the plant blooming normally in the meantime.

G. & J. W. Ludwig of Allegheny had an interesting exhibit of Darwin tulips, *narcissus poeticus*, *Bride*, *Bridesmaid* and *General MacArthur* roses; also summer chrysanthemums and the common field daisies, which latter they have a way of putting on the market some three weeks ahead of their blooming season in the fields. Jno. Bader showed palms, marantas and *Whitmani* farm. The latter, while very beautiful, was thought to be dependent on greenhouse conditions than the Boston fern. The Phipps Conservatories had Japanese tree peonies in variety, the new pink rose *Annenchen Muller*, *Lilium Rubellum*, *weigela* and *spiraes* in variety. Bechtel's double flowering crab and other flowering shrubs.

It had been intended to have a display of peonies, but excepting the Japanese tree peonies and a few of the old officialis, none were in bloom. Several members had been appointed by the president to speak on plants and flowers most in demand on Memorial Day, but with one accord they all declared they could only say that anything that bore even a semblance of a flower sold freely on that day.

The subject for the July meeting will be the July picnic, S. A. F. August convention and seasonable plants and flowers.

H. P. JOSLIN, Secretary.

NEW LONDON COUNTY HORTICULTURAL SOCIETY.

The meeting on June 3 was held at Norwich, Conn. President Head announced that prizes had been offered as follows: \$15 by C. H. Totty, Madison, N. J., for the fall show; \$10 to be known as the Bay State Nursery prize; a medal by Lyon & Ewald of New London, for sweet peas. Addresses were made by J. H. Slocumbe on Summer flowering bulbs, and by President Head on vines.

The backward season has made it necessary for the Amateur Horticultural Society of Springfield, Mass., to give up their rose show on June 25.

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting was held on June 7. Among the exhibits of special merit were natural hybrid No. 1, orchids, *Cattleyas Mossiae* x *C. Percivaliana*; *Cattleya Mendelii* superbissima, of remarkable size and beauty measuring eight inches across, the first season of its blooming since introduction; *Phalaenopsis Cynthia* (*Schillerae* x *Aphrodite*) and a white *Macrantha Kunastiana*, from Lager & Iurrell of Summit. Besides the usual meritorious orchid display were a new rambler rose, *Julius Roehrs*, from *Julius Roehrs Company* of Rutherford; *Odontoglossums vexillaria* and *Laelio-Cattleya Martinette*, from George Graves, gardener Edwin Thomas; Veitch's hybrid columbine, *Gladolus Peachblow* and carnations *Enchantress* and *Victory* from Charles Hathaway, gardener Max Schneider; roses *Richmond* and *American Beauty* from John Crosby Brown, gardener Peter Duff; specimen palms from the Colgates, gardener William Reid, and Stewart Dickson, gardener Albert Larson. The promised rose display has been given up because there were no roses. The schedules for the forthcoming fall exhibition were distributed and the dahlia night for the September meeting discussed.

J. B. DAVIS.

THE COLUMBUS FLORISTS' CLUB.

By invitation of the Fifth Avenue Floral Company, our club on June 3, held its regular meeting at their greenhouses. The largest gathering of the year was on hand. President Stephens was in the chair, and every other officer was present. Announcement was made of the winners of the largest number of point awards, secured during the past season (October to May), for exhibits of plants and flowers. The first prize of \$5.00 was awarded to I. D. Sieber, with 123 points. R. A. Currie, with 83 points, took the second prize of \$3.00; the third award of \$2.00 went to Sherman F. Stephens, who had 60 points. These point prizes have secured a fine display at every meeting the past season. The progress made in regard to the annual field day, to be held July 17, at Buckeye Lake, was reported by James McKellar; the members have very generally signified their intention of going. The committee have arranged base ball, sports and games, with suitable prizes. M. B. Faxon made the final report of the vegetable and flower seed packet distribution to the school children; over three thousand children have been supplied, and much more interest than ever before manifested in the work. Frank Kemp, who is with the Clover Hill Greenhouses, was elected an active member. The rose and strawberry show will take place Tuesday evening, June 11. The president called our chrysanthemum growers' attention to the coming show, and urged all to prepare for it. The business meeting over, a very excellent collation was provided by our hosts. Then there was music, games and a social time until the midnight hour.

AMERICAN ASSOCIATION OF NURSERYMEN.

The American Association of Nurserymen is holding its annual convention in Detroit, Mich., as we go to press. An attendance of 400, some from Germany, France and England and much enthusiasm over the royal welcome extended by the Detroit city officials, florists and nurserymen is reported. Below we give the address of President Orlando Harrison at the opening of the first session, in Hotel Cadillac.

PRESIDENT'S ADDRESS.

Fellow Nurserymen and Members of the American Association of Nurserymen: After the cordial greetings we have just heard, every nurseryman should feel at home in the city of Detroit. We are welcomed by one of our statesmen, a nurseryman, and by the mayor of this great thriving convention city, representing more than four hundred thousand citizens.

This beautiful city of the straits, one of the most charming of American municipalities, with its healthful surroundings, its wealth and high social culture, needs no extended praise at my hand.

The year passed has been a notable one, and the whole country is at the flood-tide of industrial development. Never before in our history have we seen conditions so prosperous. The word prosperous is putting it mild. Every branch of business seems to be in a thriving condition—our neighbors making millions in manufactures, men leaving the farms for city life, our labor leaving the nursery and going to the railroads and many other industries which can and do pay more for their labor. One can hardly name a business enterprise but what has been profitable.

Our Finances.

When I accepted the presidency last June, I was mindful of the fact that necessary funds should be provided for the expenses of the special representative appointed; keeping this in view I have been careful to avoid any experimenting with our treasury and I am pleased to state what you already know that it has not been necessary to call on you for additional guarantees, as \$3,000 was promptly provided by our Ways and Means Committee.

Recommendations.

Seeing the conditions that confront us as a body, permit me to make a few recommendations, which in my humble judgment will be a great benefit to the association.

First, that we establish a claim department, and appoint for its guidance an advisory board, or the Executive Board may act as the advisory, for adjustment of all disputed claims between nurserymen, as well as with railroad companies, express companies and others. A fee should be charged when claims are entered, and a per cent. charged when collected.

Second, I earnestly recommend that there should be a closer co-operation between the nurserymen of this country and their respective State Experiment Stations, in the testing of new varieties. We have in the Experiment Stations an organization designed for the purpose of trying new kinds. We should see to it that a variety has a fair test and

that it is not disseminated until it has proved its value for some part of the country.

Would it not be a good plan for originators of new varieties of fruits to send trees under restriction to the Experiment Stations for trial, before they are generally distributed and offered to the trade.

Horticultural Press.

The horticultural papers of the country are doing a great work for the nurserymen. They are the text books for the prospective fruit grower, and the nurserymen should get in close touch with the editors and show them just what we are trying to do for the fruit grower, that they may better understand what difficulties we encounter to grow a good sound merchantable tree.

It is through the press we learn of the successful peach orchards of the south, the apple orchards of the west, and the great opportunities that have been overlooked in the northern, eastern and New England states.

I contend it's the duty of an editor to know something about the firm he is advertising in his columns, that when asked about them he can answer questions more intelligently. He should, if possible, visit the various nurseries with whom he is doing business, then he is in a position to help his customers.

The nurserymen are the poorest advertisers of any great industry and it is our own fault.

There is more real live, instructive, interesting advertising that can be gotten up, showing the many advantages the nursery interests are to a town, county or state, and the government than in any other business that can be named. Our whole life work is a creation of the germs of horticulture, and our experience is the guide to cultivation and the foundation of prosperity. A true nurseryman is a genuine public benefactor, and because I consider it one of the choicest professions I would not exchange my occupation for any other; but I believe in order to attain the greatest success we must learn to help others.

What a small part of this country is utilized for fruit growing according to its possibilities. I am sure there is not a nurseryman here who cannot point out great opportunities for fruit growers; these opportunities must be made known to the millions of city people who are anxious for a country home.

If nurserymen will get closer to the editors of fruit and farm papers, inform them how we bend our energies to serve the fruit grower, and how certain enthusiastic, energetic fruit growers are succeeding it will inspire others to do likewise.

The Business Side.

Fellow nurserymen, if we are to succeed, we must have a great demand for our product—the tree.

The planting of trees over the country is increasing, but not in proportion to the increase of population. The information contained in the horticultural and agricultural press has been an advantage to all. Many sales have been made by the tree agent, after the fruit growers and farmers have learned through the press of the pleasure and profit in fruit growing. It helps to create a

demand. In fact any literature on fruit growing is a decided help to nurserymen and growers alike. It seems to me we are not attending to this in a systematic, business-like manner.

We, as nurserymen, should look after the young men who are graduated from the colleges, and turn their attention to the fruit industry of the country, and show them the advantages to be derived from an outdoor life and encourage them to adopt horticulture as a business.

Could we not, through the secretary's office establish a Bureau of Information, by which young men with both the necessary scientific and practical training to plant and manage orchards could be brought into touch with the fruit growers who are in need of such help? It seems to me this would encourage tree planting, particularly in localities where men are deprived of going into the orchard business. We need such a bureau for the nurserymen's help through which he could get competent foremen and assistants.

The American Civic Association.

What a grand work the American Civic Association is doing. Their work is an advance agent for the nurseryman, getting together, inspiring us with new life and vim, creating a desire for new fruits and more attractive homes. If we could only induce every city and town to have a Civic Association it would be greatly to our interest.

Fumigation.

Another matter that should receive the careful attention of this Association is the criticism of planters relative to the fumigation of nursery stock. Many of the most observant tree planters object to having their trees fumigated. Their experience is that dipping is the safest, and most effective method and they prefer to do the dipping themselves. Evidence of the benefits derived from dipping is encouraging. This is extremely important to nurserymen, for we know only too well that fumigation is costly and requires extreme care. The laws of the several states respecting fumigation are stringent and I might say exacting, and the nurserymen have faithfully endeavored to meet their requirements but when fumigation is objectionable and other means can be employed that entails less expense and is equally or even more effective in controlling the insect pests, we should know it; so from the criticism about fumigation and the results obtained by dipping, I feel it a duty to bring the subject to your attention, for such discussion or action as in your judgment the importance of the matter may suggest.

Legislation.

It is with great pleasure we welcome the Committee of Economic Entomologists, sent here to confer with the nurserymen in order to improve the present condition, governing inter-state shipments of nursery stock. It is earnestly hoped that some satisfactory means can be arranged in the near future whereby the existing troubles in regard to the inter-state transportation of nursery stock may be mitigated to a large extent.

I understand at the last meeting of

the Association of nursery inspectors, a resolution was passed, favoring general control of the inter-state transportation of nursery stock. This I consider a movement in the right direction, and would like a discussion of this important matter by the nurserymen at this meeting. A resolution should be passed expressing our views on the subject to be presented to the Secretary of Agriculture and the proper committee of Congress.

At the request of the Economic Entomologists, a committee of E. Albertson, Prof. John Craig and myself visited their meeting in New York City—Prof. Craig being a member of the special tag committee. We tried to make it plain that the nurserymen would welcome anything to advance the general plant interests of the country and would work in harmony with policy looking to that end. An invitation was extended to them to meet with us here. The committee on legislation has kept closely in touch with all matters pertaining to legislation. It is only by thorough and active co-operation on the part of the nurserymen of the country, together with the entomologists and with the nursery inspectors that such measures can be taken which will prove of benefit to all concerned. We should realize the importance of co-operation between the nurserymen and entomologists; I believe it is the proper solution of the question of uniform inspection, and transportation laws, and I trust this meeting will be the means of cementing the interests of the nurserymen and the entomologists more closely together.

I should also recommend that a committee of nurserymen be appointed at this meeting to conduct an active campaign looking towards something definite.

Dwarf Trees—Value of Seedlings and Stocks.

The value of dwarf trees should be brought to the attention of growers to be used as fillers, and it would mean the output of millions of trees, especially to small planters who have limited space, and might induce a start in fruit growing.

We should learn the great difference between the value of seedlings and stocks, for the fruit grower. Seedlings are of more importance to the nurseryman at this time than ever before, and we must look closer to the interest of our customers for success.

Our Committees.

All committees have worked faithfully and unselfishly for the benefit of the Association. I have spoken of the work of the legislative committee. A programme has been prepared by the programme committee with a view of focusing discussions upon some of the important points connected with nursery work. This committee has labored for twelve months and their work is commendable.

Transportation.

The subject of transportation has been left with the committee and special representative, with full authority to accomplish the best results, and his report will inform you of what has been done. It is necessary for us to keep in close contact with the railroad officials. The present agitation against railroads, with more than

four hundred state bills aiming a deadly blow at them have had an influence. There has been a change. I have not found it hard to obtain a conference with the proper authorities. What we want, need, and must have, is quicker movements of our trees and plants. I am creditably informed they are preparing for this movement. Many complaints are made against the express companies for goods lost or stolen, for which it is difficult to obtain satisfactory settlements.

Tariff.

The tariff committee has ever been ready to look after our interests; nothing of any special interest has come to my attention. Some large growers have thought the tariff we are now paying on seedlings was a waste of money, because the French cannot compete with the American growers if the tariff was abandoned.

Publicity.

We are greatly indebted to the publicity Committee in advertising this meeting in such a thorough manner, showing the great necessity of the nurserymen getting together at this time.

Advance the Price of Stock.

My last and most important recommendation to you, is, that we, as nurserymen, should increase the price of our trees and plants in proportion to the increased price in labor and other necessities for growing high grade nursery stock. There has been a demand for cheap trees, and the nurserymen, in their endeavors to meet this demand on the part of planters, have endeavored to furnish a cheap tree. By this we have been in error, and my observation is that the most progressive planters are demanding a higher grade of trees. This will cost the tree grower more money to produce but will also advance the price of his stock; this tendency is encouraging, as the final result will be the production of better stock which will demand a higher price. Our business does not differ from others; there is more profit in high-grade products, than of low grade. I contend that it is imperative upon nurserymen to produce a higher grade nursery tree, for which an advanced price will be paid, and the present is opportune for emphasizing that feature of our work.

Has the nurseryman prospered in proportion to other lines of business; if not, whose fault is it? I claim a nurseryman is entitled to as full remuneration as a man in any profession, for no man has to work harder and put in longer hours.

Fellow-nurserymen, there are many reasons why you cannot grow trees as cheaply as you once did. Are you determined to continue to sell at the same old price? I predict that greater care will be necessary to grow good stock and more rigid inspection will be insisted on in the future. Are you preparing to meet these conditions?

Let the nurserymen stand together. Let them have confidence and faith in each other; let them know the cost of production and charge accordingly. Let them grow good stock, study the needs of the planters, advise wisely; act conservatively; and above all so conduct their affairs as to bring credit and renown upon a business which is

among the most honorable and pleasant, open to intelligent men—that of the nurseryman.

SECRETARY'S REPORT.

Secretary George Seager reported the receipts for the year to have been as follows:

Membership fees	\$2,105.00
Advertising in Badge Book..	710.50
Sundries	52.30
	\$2,867.80
Number of members paying fees	457

A recommendation by Mr. Albertson to establish committees on rates, to combine export shipments to procure lower rates on boats and railroads was adopted.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The schedule of the C. S. A. is now ready and the following prizes are offered to be competed for at our next meeting which will be held in New York City, November 6 to 8.

The C. S. A. prize, a silver cup, for the best 10 blooms in show any color.

The F. R. Pierson Co., Tarrytown, N. Y., a silver cup for 10 blooms each white, yellow and pink.

A silver cup for 10 blooms Miss Clay Frick.

Vaughan's Seed Store, a silver cup for best specimen bush plant. Open to private gardeners only.

W. Wells of England, gold, silver and bronze medals for 6 blooms of Miss Mariah Hankey on 24-inch stems.

Nathan Smith & Son, \$25.00 for best seedling or sport of American origin, commercial scale.

Chas. H. Totty, Madison, N. J., \$15.00 and \$10.00 for 15 blooms 10 varieties, introductions of 1907, on 12-inch stems

A. T. Raddington, New York, \$10.00 and \$5.00 for 10 blooms Beatrice May on 24-inch stems.

A. J. Loveless, Lenox, Mass., \$24.00 for largest bloom in show, respectively, white, \$8.00; yellow, \$8.00; pink, \$8.00.

J. M. Thorburn & Co., New York, \$10.00 for 12 blooms 4 varieties 24-inch stems. Open to private gardeners only.

Henry A. Dreer, Philadelphia, \$15.00 for 24 blooms 6 varieties 24-inch stems.

E. G. Hill Co., \$15.00 for 12 blooms of President Loubet and \$10.00 for 10 blooms of Mad. Armand Detroyat.

Stumpp & Walter Co., New York, \$10.00 for 3 blooms of Morton F. Plant.

Peter Henderson & Co., New York, \$25.00 to the private gardener winning the greatest number of points, to be determined as follows; a first prize to count 10 points; a second prize to count 5 points; a third prize to count 3 points.

DAVID FRASER, Sec'y.

AMERICAN PEONY SOCIETY.

It being evident that the peonies in the testing gardens at Cornell and, in fact, with growers generally who are expecting to make exhibits at the annual meeting of the Peony Society, in Ithaca, N. Y., will not be ready in time for the earlier date. Notice has been sent out that the meeting and exhibition will take place on June 27 and 28 instead of 18 and 19 as previously announced.

The Great Temple Show at London, England.

SOME NOTABLE PLANT EXHIBITS.

Herewith I post you full report R. H. S. grand show at the Temple. It was crowded first day, and on the second three thousand people passed the turnstile, so altogether it was a record show, as doubtless today, the third day, at one shilling entrance, the masses have attended in thousands. The first day it was so dull and overcast in the afternoon that the prize cards could not be easily read, and the names, unless boldly typewritten, could not be deciphered. Scarcely any of the exhibitors got all the space they applied for, and many who had brought extras to fill up were obliged to leave them unpacked or to stand them behind the marquees, while even the outside groups, always a grand feature of this show, were too crowded. T. Cripps & Son showed Japanese maples, including all the finest of the palmatum and the septemlobum kinds. The uniformity of grouping was relieved by large plants of vitis and clematis. Color was given by some fine rhododendrons and Azalea Altaclarenae. A finish to the grass was formed by Cornus Moseriana tricolor, ivy Silver Queen, and Euryalatifolia variegata. Joining this was the noble bank arranged by John Waterer & Son, chiefly rhododendrons and Kalmia latifolia, the mass being broken up by the insertion of finely bloomed trees of Viburnum plicatum. Pink Pearl was again, both as regards color and size, much to the fore. L. R. Russell's group was broken up by tall plants of Osmanthus aquifolia purpurea—as standards, Eleagnus picta aurea and the noble E. macrophylla, while a glorious plant of the new golden variegated Dimorphanthus Manduricus flanked the group on either side and a background was built up of specimen hollies and ivies. This firm had also well flowered pyramids of Ceanothus Veitchi and Photinia serrulata.

Paul & Son, Fromow & Sons, Low & Co., J. Cutbush & Sons, Pulham & Son, David Russell & Sons, R. Smith & Co., and Veitch & Son were among the other outside exhibitors, all making large and striking groups of their several specialties. Entering the exhibition hall the first exhibits were those of Carter and Sutton, then the fruit display from the garden of Lord Aldenham, then began the banks of flowers, a center of attraction being cut boughs of the copper Austrian briar rose by George Mount. Baron A. de Rothschild put up a rich treat in fine fruits; George Bunyard showed about 100 dishes of apples and pears, fruit trees in pots and a glorious show of herbaceous perennials.

Scientific readers will like to know that Messrs. Storrie showed primroses, and their gradual evolution into polyanthus cowslips and the changes were accentuated by red cotton radiating from a center; they also had a white Polyanthus most singularly fasciated, and a Polyanthus primrose named Alchemist thought to be a veritable hybrid.

Jno. Laing & Sons had a bank of fine double begonias, but the grand-

est as yet shown, were those of Blackmore, Box, and A. Guillim, the last especially grand in new double forms—one, Tracendent was at least six inches over! H. B. May was an easy first with ferns—the “shot silk” Polypodium Mayi, Nephrolepis Whitmanii, Davallias effusa and repens, Osmunda palustris, Mayi and Nephrolepis todacoides and exaltata superba being extra fine.

Thomas Rochford & Son also had a lovely bank of Nephrolepis todacoides superba. Of roses, George Mount had the finest lot both for quality and variety, and the weather being cold and dull, they kept well even to the last day. He had few novelties. These were in Frank Cant's show. D. Harum, J. B. Clarke, Dean Hole, Poly. Etoile d'or, Mildred Grant, Florence Pemberton, Lady Roberts and Rambler Grus an Zobern, with Mons. I. Hill being most notable, while W. Paul's Snowstorm, so very aptly named, has come to stay, and Sinica Anemone is a chaste single white. Ben Cant had “Tea Rambler”, atropurpurea and others. MM. Van Waveren put up large plants of new astilbes, both pink, Peach blow and Queen Alexandra, novel but no gain in this flower.

I. A. Bruce brought from Manchester a good collection of Darlingtonias and sarracenias, which attracted much notice, but in contrast with a noble bank of caladiums, by Laing & Son, and Peeds—where were they? Laing's best were Rose Laing, Mons. Dellas, Souvenir de la Barronne, Madm. Box, Ignatu and Madame A. de Rothschild. Then came H. Cannell's glorious cannas—Crozy's and Pfitzer's best splendidly flowered, Wm. Pfitzer and Gerard Low, the finest. Phyllocactus German Empress, a lovely soft rose sort, will doubtless make a grand window plant. Tree and Malmaison carnations were well shown, by C. F. Waters, among them being some unnamed but very promising seedlings. Burnet says the best yellow yet is Ceres. A crimson seedling shown by C. Englemann is highly clove scented and will take the place of even such great favorites as Pike and Harlowarden.

Orchids, which must have suffered in the cold of Tuesday night, were plentiful, but the daily press may be left to appraise them for cash value, seemingly their only standard of appreciation. J. Linden (Brussels) sent Odontoglossum crispum “Reine d'Angleterre” and Cochleoda Noetlana, both of unique form, color and price. Just a line or two regarding Jackman's Gladiolus Cardinalis vars., Spanish iris and pyrethrums—they were lovely, but too crowded, and their finest white clematis, Mrs. Geo. Jackman and Ville de Lyon, and many fine herbaceous plants of recent introduction. Peed's gloxinias—mostly erect-flowered—were splendid.

Other notable exhibitors were J. Backhouse & Son, alpine plants; King & Co., sweet peas, Hobbies, Limited, roses; W. Cutbush, herbaceous flowers and lilies; Cheals, Peter Barr & Sons, John McKercher, C. Turner, R. C. Notcutt, Misses Hopkins and others, besides a number of the Agricultural Colleges, all of which we should like to describe in detail if space would permit. THOMAS BUNYARD.

NEW AND RARE PLANTS AT THE TEMPLE SHOW.

The great annual Spring Flower Show of the Royal Horticultural Society of England opened in London yesterday (May 28th) and continues today and tomorrow. I suppose that nowhere else in the world is there ever gathered together such a galaxy of flower riches as at the Temple Show, the orchid displays especially being unrivalled.

The Veitchian Cup, the highest honor that the show can bestow, this year was awarded to a magnificent group of orchids exhibited by Major Holford. The arrangement of the group was excellent, each plant being placed clear of its neighbor so that all were seen to advantage. Messrs. Sander & Sons and Mr. Jeremiah Coleman were awarded gold medals for their orchid displays.

The Roses.

Among the roses the ramblers were first favorites. Nothing attracted more attention than Hiawatha. Its profusion of crimson flowers, rendered additionally attractive, first by the bunch of yellow stamens and, when these fade, by the white eye that then becomes conspicuous, gained many friends. This year, as last, it was undoubtedly the rose of the show. A charming new rambling rose called Kathleen has made a very favorable impression. It produces loose bunches of pink apple-blossom-like flowers at the ends of the side roots. It is a multiflora variety of the same style of growth as Crimson Rambler and not of the Wichuraiana class like Hiawatha and Lady Gay. I noticed a remarkable new shrubby rose in the group from Messrs. Benjamin Cant, named Nance Christy. The leaves are unusually strong and look as though they might remain on the plants throughout the winter. The flowers are semi-double salmon pink. The only rose to obtain an award of merit was Dr. William Gordon, a handsome H. P. shown by William Paul. The blooms are bright pink, large and full and in their early stages the petals are exquisitely turned in the same way as those of La France. Two new Polyantha roses were exhibited. One, Maman Levavasseur, exhibited by MM. Levavasseur et fils of Orleans, was described as “a perpetual Baby Dorothy,” which I take it is intended to refer to Dorothy Perkins. The flowers, however, are not nearly so double as those of Dorothy Perkins, although they are more brightly colored and are very freely produced. The other variety is called Phyllis and was shown by Messrs. Merryweather, an English firm. The blooms are bright clear rose and the plants are said to blossom until the autumn.

Some Notable Plants.

Cheal's pink variety of Lupinus polyphyllus is a charming plant. Carter's Petunia Queen of Roses is very showy and in the mass would make a grand display. The color is bright rose and the bloom has a greenish white throat. Tuberous begonias were exceptionally fine and several new varieties obtained an award of merit. Mrs. Marshall, a striking double variety bright red with crinkled petal

edges, and Lady Cromer, a large bloom: the outer petals soft pink margined with white, were shown by Thos. S. Ware. Begonia, Mrs. Gwillim, a beautiful double flower, apricot-salmon, was shown by A. L. Gwillim.

Only one carnation was honored by the award of merit, the Malmaison variety Marmion, white splashed with rosy red, shown by H. Burnett. Azalea Mine, Anthony Koster, shown by Cuthbert, obtained an award of merit. It is a charming flower, soft yellow tinged with rose. Dracaena Victoria, shown by Messrs. Bull, has leaves creamy yellow with central markings of grey and green. A charming white poppy anemone called The Bride was shown by Messrs. Gilbert. So far as I know this is the only white poppy anemone with green centre and planted among the scarlet varieties it would make a striking display. Pink Pearl Rhododendron, tulip Gorgeous, an unusually large orange scarlet Darwin tulip, oriental poppy Princess Ena, apricot color with black centre, Kalanchoe flaminea (scarlet) Kalanchoe Kewensis (rose) were other new or striking flowers. H. H. THOMAS.

Certificates Awarded.

FIRST-CLASS CERTIFICATES.

Laelio-Cattleya Golden Glory, Major G. L. Holford. Miltonia Vexillaria, Major G. L. Holford. Odontoglossum crispum Solum, Sander & Sons; Odontoglossum crispum xanthotes, Sander & Sons. Cypripedium tibeticum, Jas. Veitch & Sons. Odontoglossum ardentissimum Robsonae John Robson. Odontoglossum gandavense, Charles Vuylsteke; Odontoglossum eximium King of England, Charles Vuylsteke; Odontoglossum caeruleum, Charles Vuylsteke.

AWARDS OF MERIT.

Cattleya Mossiae, Princess of Wales, Major G. L. Holford. Odontoglossum Thompsonianum superbum, W. Thompson. Brasso-Laelio-Cattleya Lido, Chas. Maron. Saxifraga aizoon rosea, Mr. Farrar, Craven Nursery. Primula X Unique, Jas. Veitch & Sons. Cytisus Firefly, R. W. Wallace & Co. Papaver Princess Ena, Amos Perry. Tulip Gorgeous, Alex. Dickson & Sons. Verbena aubletia compacta, Dobbie & Co. Actinidia chinensis, Jas. Veitch & Sons. Azalea Mme. Anthony Koster, R. & G. Cuthbert. Carnation Marndon, H. Burnett. Begonia Mrs. J. C. Gwillim, A. L. Gwillim. Begonia Rhoda Pope, T. S. Ware; Begonia Wm. Marshall, T. S. Ware; Begonia Lady Cromer, T. S. Ware. Rose Dr. William Gordon, W. Paul & Son. Caladium Thomas Tomlinson, Jas. Veitch & Sons.

DUTY ON RHODODENDRONS, ETC.

In the case of the application of P. Ouwerkerk for review of a decision of the U. S. General Appraisers the following reversal in favor of Mr. Ouwerkerk has been recorded.

U. S. Circuit Court, Southern District of New York, May 14, 1907. Suit 473.

Species of the laurel (*Aucuba japonica* and *Kalmia latifolia*) and of the rhododendron (*Rhododendron ponticum*), which retain their verdure throughout the year, are "evergreens" within the meaning of paragraph 252, tariff act of 1897; and under said paragraph seedlings of those plants are dutiable as "evergreen seedlings" rather than as "nursery stock."

INCORPORATED.

The Benjamin Chase Co., Derry, N. H., Benjamin Chase, president, John G. Chase, treasurer.

The Kentucky Blue Grass Seed Co., Mt. Sterling, Ky.; J. M. Bigstaff, F. Tabb, M. Cockrell; capital stock, \$8,000.

Orchard Grass Seed Commission Co., Frankfort, Ky.; W. J. Johnson, N. A. Hardin, C. R. Stoll, J. C. Pierce; capital stock, \$2,000.

Seed Trade.

It is said that the railroads have this year refused to grant the usual rates of one fare and a third for the round trip to the seedsmen's convention. In view of a recent decision of the Interstate Commerce Commission, that the rates made to theatrical companies were open to all, another way may be found of getting the desired rate. For instance, any ten or more persons starting from Chicago to attend the convention, can demand theatrical rates, and the railroads are compelled to grant them. Refusal to do so subjects them to the penalties prescribed under the interstate commerce law. It might be well for those proposing to attend the convention to test the temper of the roads on this point. Abrogation of all special rates is the only way of escape from them.

Crops on Long Island are from three to four weeks late. Potatoes, which are usually in blossom the first week of June, are barely more than out of the ground. It is usual for the first Long Island potatoes to be in the New York markets by July fourth, but it will be nearly August first before they will be in evidence this year. Such green truck as the farmers have to offer is bringing almost famine prices. Truck from the south is late, and going at fancy prices. Potatoes just coming in from North Carolina and Virginia and selling readily at from \$4.50 to \$5.00 per bbl. Some Bermudas came in last week and were promptly snapped up at \$6.00 to \$6.50 per bbl. Quite possibly the farmer may make fully as much money from the short crops as from the larger ones, but the public will see another upturn in the wheel of high prices. Much replanting has been done and truck may be cheap later in the season, but just now "garden sass" is well up among the luxuries.

J. M. Thorburn & Co. report a good increase in the total return of business this year. Their retail has shown a slight falling off, but the increase in their wholesale department has much more than made this good.

Wm. Elliott & Sons say business in the auction line is exceptionally good and prices above average. Their general business is better than usual.

There is nothing new concerning crops excepting further confirmation of the rotting of peas in the ground, also potatoes. In the case of seed peas this is beyond remedy, as firstly, there is no seed of most varieties, and secondly, it is too late. There is some chance for potatoes, but it is slim.

A correspondent from Cuba sends us the following regarding the opportuni-

BEGONIAS

TUBEROUS ROOTED



	Doz.	100
Single White	\$.50	\$3.00
Red	.50	3.00
Rose	.50	3.00
Yellow	.50	3.00
Orange	.50	3.00
Mxd Colors	.40	2.50
Double colors, separate or mxd.	1.00	6.00

W. Elliott & Sons
201 Fulton St., N. Y.

ties for vegetable raising presented there: "Tomatoes, egg plants, melons, water melons, squashes, in fact, every kind of vegetable, do exceptionally well in this country. These can be placed upon the American market well in advance of early vegetables from any other source which guarantees a handsome profit to the farmer. The freight rates on this class of produce are exceptionally low, and truck farming would appear to be the most remunerative industry open to the settler with small capital."

Seed report on cauliflower and cabbage from Denmark: We are taking pleasure in reporting to you that as far as the cauliflower is concerned the plants for this year's crop have overwintered fairly well, but the cabbage planted November last, especially the Danish Round-head (short), have been damaged by the black frost, and 30 to 40 per cent. of the heads died off, so it may affect seriously the quantity of the crop of seeds."—Hjalmar Hartmann & Co.

Howard M. Earl of Philadelphia, left for California on the 8th inst. on a crop inspection tour to that locality and other points west and southwest.

Geo. W. Karr of Wilkesbarre, Pa., paused at Philadelphia on his way to Atlantic City on the 10th inst. long enough to greet the members of the leading houses and renew the cordial feelings that have existed for over thirty years.

WASHINGTON GARDEN NOTES.

Garden seed planted in March have not yet matured. Usually, at this time in June, one is tired of peas, and beans are coming in to take the place of the former. This summer there have been, with few if any exceptions, no home-grown vegetables, save radishes and lettuce. Crimson Ramblers are not yet in bloom in any quantity, deutzias, sweet williams, daisies and weigelas are about the only things that are sufficiently daring to bloom; what few peonies there were are about gone.

ZIRNGIEBEL'S GIANT PANSIES

Fresh Crop

Now Ready

Famed for a quarter of a century and when you buy them you get the best in existence. I am continuing the pansy business on exactly the same standard as carried on by my father, the late DENYS ZIRNGIEBEL. None genuine unless sold by me.

AUGUSTUS ZIRNGIEBEL, Needham, Mass.

GIANT MARKET. "The Variety for the Million." Trade packet, 2000 seeds, \$1.00.

GIANT FANCY. The NE PLUS ULTRA in Pansies. Trade packet, 1000 seeds, \$1.00.

FIFTEENTH NATIONAL IRRIGATION CONGRESS.

What has been known as the National Irrigation Congress heretofore bids fair in the future to become an International Irrigation Congress. The present year's meeting of this Congress, which will be held in California, at Sacramento, in the early part of September, has been attracting notice abroad, and the officials of foreign countries are expressing an interest in the meeting. It is understood even this early that Australia will be represented and some delegates are expected from there. This goes to illustrate the world-wide interest in Irrigation and Forestry—and the real value of this event to the agricultural interests of this country.

During the Irrigation Congress session extremely favorable railroad rates will prevail, and arrangements have been made for a thousand-mile excursion around the Sacramento Valley, as well as special trains and low rates for side trips, which will give Eastern visitors to the Congress an opportunity to see the agricultural and horticultural side of California which is seldom presented, and they will come in contact with practical irrigation study at the same time. Irrigation is a science now-a-days, and is being recognized as of importance in other sections than the purely arid, and the ability of the horticulturist to get the proper amount of water in his soil at the proper time and regardless of whether the season sends rains opportunely or inopportunely, is coming to be turned more and more to account, and as knowledge of such matters increase it comes to be reckoned more and more in value as dollars and cents.

The list of trophies to be offered at Sacramento continues to grow. It now numbers no less than sixteen handsome gold and silver loving cups and specially designed trophies, representing an aggregate cost of nearly ten thousand dollars. Competition is open to all States except California.

BRAINS are sed in mixing our PANSY SEED

"BODDINGTON'S CHALLENGE" mixture contains all the finest Giant strains—of the leading Pansy Specialists in the world—the Giant self colors, the Giant striped and margined, and the Giant blotched—all carefully mixed in proportion—the finest that money can buy—the finest your money can buy. A florist, who has grown it, said "Why don't you call it *Defiance*?"

Trade pkt. 75c, 1-4 oz. \$1.50, 1-2 oz. \$2.75, oz. \$5.00. New crop ready July.

... Order now ...
A. T. BODDINGTON, 342 W. 14th St., N.Y. City

G. C. MORSE & CO.

Address all communications to our permanent address
48 to 56 Jackson St., San Francisco, Cal.

The Largest Seed Growers
in the United States

JOHN SCHEEPERS & CO.
ARNHEM, HOLLAND
for Reliable
BULBS and PLANTS

PANSY

MICHELL'S GIANT EXHIBITION

This is the finest strain of pansies in existence today. A grower wrote and told us he bought some elsewhere for \$10.00 per oz., which was not as good as ours for \$5.00 per oz.

50c. per trade pkt.; 1-8 oz., \$1.00;
\$5.00 per oz.

CINERARIA

MICHELL'S PRIZE MIXTURES

Medium Fall,	1/2 trade pkt.	trade pkt.
Dwarf,	60c.	\$1.00
	60c.	1.00

PRIMULA

MICHELL'S CHOICEST MIXTURE

Combining a wide range of colors, magnificent trusses

1-2 trade pkt., 60c.; \$1.00 per trade pkt.; 1-32 oz., \$2.00.

Send for our Wholesale Price List
for Florists

HENRY F. MICHELL CO.

1018 Market Street
PHILADELPHIA - PA.

JOHNSON'S KINGLY PRIZE WINNER PANSIES

are the product of the world's leading Pansy Specialists and absolutely unsurpassed in quality by any strain extant. A trial will give you the most gratifying results and prove our statement. We offer seed as follows; Per 1000 seeds, 30c; 2000 seeds, 50c; 5000 seeds, \$1.00; per ounce, \$5.00.

Send for our complete Pansy list.
Orders booked for French and Dutch Bulbs.

JOHNSON SEED COMPANY
217 Market St. Philadelphia, Pa.

FISKE'S SEEDS

For Immediate Sowing

Also

GLADIOLUS BULBS

In variety and mixture

Our Trade List Mailed on Application

H. E. FISKE SEED CO. Faneuil Hall Square, BOSTON

NEW STOCKS

FLOWER SEEDS for FLORISTS

Wholesale Catalogue Ready. Send for it today. But first read our advertisement on page 722 HORTICULTURE. It is worth reading.

James Vick's Sons
Seedsmen Rochester, N. Y.

High Grade Seeds for
Market Gardener,
Florist and Farmer

Catalogues Free

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed
only to those who plant for profit.

PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a large supply of exceptionally fine quality.

For the Lawn,
The Greenhouse,
For the Herbaceous Garden,
For the Flower Garden,
For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,
6 and 7 So. Market St., BOSTON.

ESTABLISHED 1802

*Thorburn's
Seeds*

ASPARAGUS PLUMOSUS NANUS SEED.

Cold Storage LILY OF THE VALLEY PIPS, best possible grade, in cases of 1000 and 3000 pips each, at \$12.00 per 1000.

Advance Orders now being booked for BERMUDA EASTER LILIES and ROMAN HYACINTHS.

SEND FOR PRICES

J. M. THORBURN & CO.
33 Barclay St., through to 38 Park Place
NEW YORK
Everything of the Highest Grade

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY & CO.
32 & 33 So. Market St., BOSTON

BRIDGEMAN'S SEED WAREHOUSE
RICKARDS BROS.
Props.

37 East 19th St., NEW YORK CITY

**Cauliflower's
CABBAGE**

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

THE DETERIORATION OF PLANTS BY FORCING: THE CAUSE; THE REMEDY.

(Abstract of Remarks by Antoine Wintzer, Before the Florist Club of Philadelphia.)

Are our roses deteriorating or is it imaginary on our part? The real or supposed deterioration of roses is the subject of considerable discussion whenever practical rose men meet at conventions or clubs. To me has been assigned by the honorable members of the Philadelphia Florists' Club the task of solving this rather knotty problem. Now while a man may give his own reasons on any subject it does not follow that he is right, and his experience may be at variance with that of others.

My honest opinion is that a great many varieties of roses have deteriorated. Why have they done so? I believe the main causes to be over propagation, unnatural conditions in growing the stock-plants, under and over watering, over feeding and various other causes too numerous to mention. We must also bear in mind the fact that thousands of new roses and types of roses have been originated during the past 25 years or more, less than 2 per cent. of which are heard of ten years after.

The Hybrid Tea roses (to the production of which, rose breeders are now devoting so much attention) were an unknown factor 35 or 40 years ago. The breeders at that time were disseminating more H. P. varieties than all the other classes combined, the majority of which were introduced by Verdier of Paris. It was through the efforts of the late Henry Bennett that the Hybrid Tea class had its beginning wherein Bennett gave us beautiful varieties in form and color. Nearly all his productions were lacking in vigor, and to a greater or less extent this has been the case with the majority of the Hybrid Tea roses since. Practical experience has shown that only a limited number of this class are strong, when field-grown in this latitude. In a great many sections of the South and Pacific States they seem to grow and thrive better than in this section, although, even in these favorable locations, they are not entirely immune from black spot.

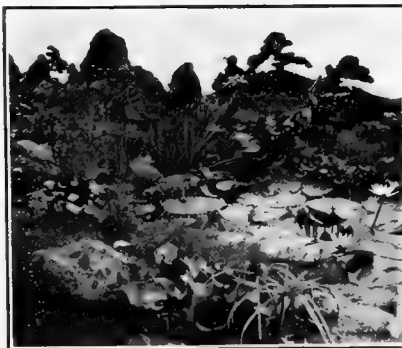
Now what is the lesson the propagator can learn from observation? (1) Secure the best and most healthy field-grown plants for propagation, grow the cuttings from such, under natural conditions and continue on the plan for a number of years and the result will be that the roses so grown will not deteriorate. But it is of vital importance that the very best plants should be selected for breeders. This, in fact, is the secret of the whole matter, start right, keep on the right track, and you will stay right, and the stock you grow will be right.

Now in conclusion permit me to ask how many growers are there in the business, in the position to do this? With the wholesale prices of roses where they are at present there is surely an eternal unfitness of things in our present price of own-root roses.

Prof. Frederick E. Clements, Ph.D., has been elected head of the botany department of the University of Min-

A JAPANESE AQUATIC GARDEN IN PHILADELPHIA.

Our frontispiece and the other accompanying illustrations show what is said to be the most finished and beautiful example of Japanese aquatic gardening in this country. It is hard



to realize that this gem of miniature oriental scenery is located in the very heart of Philadelphia, yet this is a fact. It is the garden of J. H. Klauder, 1513 Allegheny avenue, Philadelphia, and considering the limited space and other difficulties, is



really very wonderful. The features are all drawn to a scale and it took many years to gather together the little rocks which figure in it. It shows a phase of gardening art which we think will deeply interest our readers and, compared with some at-



tempts at water gardening we occasionally see—square or oval stone margined basins surrounded with plantations of balsams, lantanas Centaurea gymnocarpa and similar incongruous material—it is not without its lesson.

EXPERIENCE WITH PEONY SEED.

I had a lot of seeds last year—1906—and I thought that, to make the labor short, I would collect them in two gatherings, so after gathering the first lot, I put them away in paper bags, two or three weeks, until I had made the last gathering, and then sowed the entire lot in flats, and placed them in an unheated greenhouse, covering them extra cold nights with old boards, although at times they were slightly frozen—in the meantime keeping the seeds moistened. Now, judge of my surprise when the last gathered seeds came up thickly, while the first gathered were yet hidden in the earth, and the earth still presents its unbroken surface. The seeds evidently holding to their tradition—not to come up until the second year—while the second lot are stealing a march on time and are coming with a rush. Now, why is this? The first lot of seed were of that rich nut brown color that the florist says is all right, while many of the second lot lacked that ripe look, and had an appearance of immaturity, but both lots appeared plump and full. Was Nature trying to harden the seed against the time of planting, conserving her forces, as it were, while in the second lot the germinating qualities were progressing to their final completion? Can any one recall a similar experience or suggest an explanation?

GEORGE HOLLIS.

South Weymouth, Mass.

CROTONS AT GIRARD COLLEGE.

Edwin Lonsdale, superintendent of the Girard College grounds has effected a number of improvements on the croton and has a fine display in store for the visitors in August. His efforts have been especially rich in the way of short-jointed varieties for edging purposes. Girard College may not be on the convention program but will well repay a visit.

The annual flower show of the Village Improvement Society, Southampton, Mass., will be held August 16.

BEDDING PLANTS

Of Every Description

Also a fine lot of Palms in all sizes, such as Kentias, Arcas, Latanias, Phoenix and Cocos. Pandanus Veitchii and utilla, Crotons, Dracaenas, Nepenthes, Arelas, Araucarias, Aspidistras, Ferns suitable for dishes, in leading varieties. Cibotium Schiedel from \$1.00 to \$3.00 each.

Will book contracts for Azaleas for future delivery. Wholesale Price List on application.

A. LEUTHY & CO.,

Importers and Exporters, Growers and Dealers,
Perkins St. Nurseries, Roslindale,
BOSTON, MASS.

GERANIUMS

3000 to 4000 Geraniums, S. A. Nutt, Beaute Poitevine, in 3 and 3 1/2 in. pots, \$6.00 per 100.

200 Beaute Poitevine, very large plants, 13-15 inches in diameter, \$6.00 per dozen.

Call and inspect the stock before buying elsewhere.

A. C. LAKE

Wellesley Hills - - - Mass.

Cold Storage Lilies

All live and up-to-date florists grow
COLD STORAGE LILIES

THE forcing of cold storage lilies is no longer an experiment. If you have not already grown some of these we can refer you to **hundreds of florists** who make a success of this method and have lilies "all the year round"—The same as Lily of the Valley.

Our lilies are bought for and placed in cold storage for the express purpose of delivering bulbs in the summer time.

Lilium longiflorum and giganteum take about two months to bloom from

Lilium Longiflorum Giganteum—Cold Storage

	Per 100	Per 1000
7 to 9-in. bulbs, 300 in case...	\$ 8.00	\$ 75.00
9 to 10 " " " " " " " " " " " "	13.00	125.00

Lilium Longiflorum Multiflorum—Cold Storage

	Per 100	Per 1000
9 to 10-in. bulbs, 200 in case...	11.00	100.00
Monsters " " " " " " " " " " " "	15.00	

Lilium Speciosum Rubrum—Cold Storage

	Per 100	Per 1000
8 to 9-in. bulbs, 200 in case...	8.00	75.00
9 to 11 " " " " " " " " " " " "	12.50	110.00

Lilium Speciosum Album—Cold Storage

	Per 100	Per 1000
8 to 9-in. bulbs, 200 " " " " " " " " " " " "	9.00	80.00
9 to 11 " " " " " " " " " " " "	16.00	150.00

Lilium Speciosum Melpomene—Cold Storage

	Per 100	Per 1000
8 to 9-in. bulbs, 200 " " " " " " " " " " " "	9.00	80.00
9 to 11 " " " " " " " " " " " "	12.00	115.00

Lilium Auratum—Cold Storage

	Per 100	Per 1000
8 to 9-in. bulbs, 160 in case...	5.50	50.00
9 to 11 " " " " " " " " " " " "	9.00	80.00
11 to 13 " " " " " " " " " " " "	16.00	150.00

time of planting from cold storage. Speciosum from five to six months, so that longiflorum wanted for Thanksgiving and Christmas should be planted about Oct. 1st, and speciosum and auratum about July 1st.

We have limited quantities of the following varieties on hand and offer subject to being unsold and at the prices named; will hold not later than Oct. 1st, for our customers without any additional charges for cold storage. **ORDER TO-DAY.** All cases repacked before shipment. Full cases sold at 1000 rate.

ARTHUR T. BODDINGTON, 342 West 14th St., NEW YORK CITY

200,000 Calla Lily Bulbs--Æthiopica



Calla Æthiopica, 10 inches circumference	100	1000
" " " " " " " " " " " "	\$10.00	\$90.00
" " " " " " " " " " " "	9.00	80.00
" " " " " " " " " " " "	8.00	70.00
" " " " " " " " " " " "	7.00	60.00
" " " " " " " " " " " "	5.50	45.00
" " " " " " " " " " " "	4.50	35.00
" " " " " " " " " " " "	3.50	25.00
" " " " " " " " " " " "	2.25	15.00

The above Bulbs are all warranted to be free from disease, and safe arrival is guaranteed. My first car leaves for the East promptly on July 15. If cash is sent with the order I will prepay the freight, which is 15 per cent value of the bulbs.

A. MITTING, 17-23 Kennan Street, SANTA CRUZ, CAL.

WHOLESALE TRADE LIST

Plants from 2½ in. pots, 50c. per doz. \$3.00 per 100

Ageratum Inimitable, Blue Perfection, Heliotropes, Ipomaea Heavenly Blue, variegated Periwinkle, Lobelia, Parlor Ivy, Snapdragon Giant White, Shasta Daisies, 3 varieties, Bouvardia Humuldbtii for summer flowering, Night-Blooming Jasmine.

Asparagus plumosus and Sprengerii, strong plants, 5-inch pots, \$2.00 per doz. Passiflora coerulea, Flordii x Mammoth Beauty, a hardy variety from 4-inch pots, \$1.00 per doz; 3-inch pot plants, 75c. per doz. Clematis paniculata, 3-inch pots, 75c. per doz., \$5.00 per 100. Clematis, large-flowering varieties, home grown, two year old plants, \$3.00 per doz. Swainsona alba, 3-inch pots, 75c. per doz., \$5.00 per 100.

Hardy Scotch Pinks, 5 varieties, large clumps from open ground, \$1.00 per doz; Achyranthus Lindenii, Alternantheras, yellow, 2½-inch pots, \$2.00 per 100.

Asparagus Sprengerii, seedlings from flats at \$1.00 per 100.

Chrysanthemums, best leading varieties, White, Yellow and Pink Plants from 2½-inch pots, \$2.00 per 100.

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Caesar Franck. Beautiful soft crimson Ivy Geranium, 1905 Novelty, 25c. each, \$1.50 per doz., \$10.00 per 100.

Alliance, the handsome semi double hybrid between an Ivy and a Zonal color of the Col. Baden-Powell, strong robust grower, 25 cts. each, \$1.50 per doz., \$10.00 per 100.

Special offer for a short time. To introduce the newer varieties and to give an opportunity to have them thoroughly tested we will for a short time send one each of 100 varieties of the 1905 and 1906 novelties, our selection for \$10.00 cash. This collection will include those of such noted introducers as Bruant, Lemoine, Rozain-Bouchalat and H. Cannell & Sons and represent one of the finest collections of geranium novelties ever offered in this country. Do not ask us to send less than 100 at this price. If you haven't our Geranium Catalogue send for it. All stock is in A No. 1 condition and from 2 inch pots, unless otherwise stated.

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Selection of sorts to remain with us.

Cash to accompany all orders.

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154 Van Vranken A SCHENECTADY, N. Y.

GERANIUMS

S. A. Nutt, Telegraph and Mme. Buchner in bud and bloom from 4 in. pots; A1 stock; \$8.00 per 100; stock plants of same varieties, 5 in., \$12.00 per 100; good for tub work.

Vincas Variegated, 5 in., fine stock, \$2.00 per doz.; \$15.00 per 100. Cash with order.

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NEW YORK FLORISTS' CLUB.

The meeting for June, the last until September, on Monday evening, 10th inst., was a very interesting one although no special topic had been assigned for consideration and there were 55 members present. The subject of a club room, rented or owned, was discussed at length and was left for settlement by the board of trustees. J. C. Vaughan, who was a visitor, made some remarks relative to the National Flower Show to be held in Chicago, and F. H. Traendly stated that it was understood that all the money required for this affair had been guaranteed. The outing committee reported all ready for the picnic of July 2, with program of sporting events all ready and ample list of trophies. W. P. Craig was present with an exhibit of *Nephrolepis Amerpohlilii*, which the judges honored with a certificate of merit. Committees were appointed as follows: Transportation to S. A. F. convention at Philadelphia next August, Messrs. F. H. Traendly, John Young, J. B. Nugent; resolutions on death of father of E. V. Hallock, Alex. Wallace, Patrick O'Mara, John Birnie; on death of Julius Kretschmar, John Scott, Patrick O'Mara, A. Jaennecke.

NORTH SHORE HORTICULTURAL SOCIETY.

This society held its regular meeting June 7, President McGregor in the chair. John D. Morrison gave a very interesting and instructive lecture on insect pests. On June 21 Wm. Miller of Lynn will speak on Panama and the West Indies. The show committee wish to announce that owing to the backward season the rose show will be held at a later date than printed in the schedule, due notice of which will be given later.

CLUB AND SOCIETY NOTES.

The Elberon Horticultural Society, Elberon, N. J., will hold their rose and strawberry show on June 17.

The Lynn Horticultural Society, Lynn, Mass., held their meeting on June 3, and listened to interesting addresses by E. F. Dwyer on peonies and Rev. C. L. Peterson on The Sequoia tree of California. The annual rose exhibition will be held on June 22.

The Botanical Society of Pennsylv-

vania held its closing meeting on June 8. A reception was held in the Botanical Garden in the afternoon. In the evening the honorary president C. C. Harrison gave the introductory address, Studies in Economic Botany were discussed by R. H. True, and Dr. U. Gildersleeve spoke of The relations of bacteria and plant diseases. Stories of the familiar flowers were given by various members.

TO LAY OUT A TENNIS COURT.

Dear Editor:—

Would you give me the measurements and directions for laying out a tennis court, through your valuable paper, HORTICULTURE.

Thanking you for the same and trusting to see a reply in due time.

Sincerely yours,

W. McK.

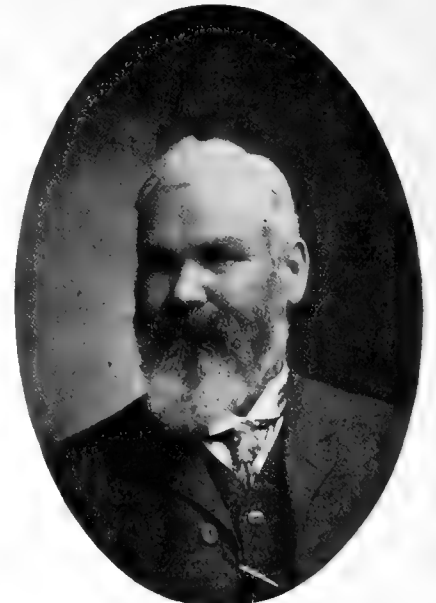
The correct dimensions of a tennis court, can be best found in a little 10 cent publication by Spaulding, the athletic outfitters, who have branches in nearly all the large cities. Besides dimensions many practical hints are also given. The pamphlet can be procured in any sporting goods store. It would be impossible to lay down any one rule or method for constructing a court as the position, nature of the available drainage and several other things have to be taken into consideration, the two chief objects to attain being a perfectly drained court, and a surface that will keep perfectly smooth, damp enough so that it will not "dust," and at the same time not adhere to the tennis shoes of the players. The most perfect surface I ever saw was only attained after many things had been tried. The body of the court was built about 18 inches with stone, starting with cobbles and finishing off with the finest gravel, but every thing we tried, from all kinds of sand, sifted ashes, etc., would not give the necessary "firm" footing. At last we ran across a seam in a gravel pit, that was gravel and very coarse sand with small particles of clayey loam in it. This material when dampened and well rolled proved perfect and held for a season at a time.

CHARLES INGRAM.

BETWEEN YOU AND ME, What do you think of the Buyers' Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

OBITUARY.

Julius Kretschmar, aged 62 years, died at his home, Lincoln Road, Flatbush, N. Y., on Saturday, June 8. The funeral took place on Tuesday, June 11. Mr. Kretschmar was for many years a member of the Society of



JULIUS KRETSCHMAR.

American Florists and the New York Florists' Club. He was formerly in business in Flatbush and afterwards at West Nyack with his brother, H. G. Kretschmar. For some time he has been in precarious health.

PUBLICATIONS RECEIVED.

A Peony Check List. Including the leading varieties of Peonies of which authentic descriptions can be found in horticultural literature. Prepared by John Eliot Coit with the co-operation of the committee on nomenclature of the American Peony Society. Published at the N. Y. State College of Agriculture at Cornell University. In compiling this list of 2706 peony names, with numerous references, Mr. Coit has plainly performed a most arduous task. No claim is made for perfection or completeness but a good beginning has been made and with the foundation now laid the further prosecution of this useful work will be less difficult. The list is arranged alphabetically. Every one interested in the peony will want a copy.

NEWS NOTES.

Royston & Fenton have started in business in Evansville, Ind.

Wheadon Bros., 29 So. Warren St., Syracuse, N. Y., have gone out of business.

Samuel Cape has purchased the Butler street store of L. I. Neff, Pittsburgh, Pa.

Samuel A. Woodrow has started in the wholesale palm business at 53 West 30th street, New York.

The Mt. Desert Nurseries have opened their Main street store at Bar Harbor, Me., for the season.

The capital stock of the United States Nursery Co., Rich, Miss., has been increased from \$25,000 to \$75,000.

W. H. Siebrecht and wife of Astoria, N. Y., sailed on June 5 for a three months' trip in Holland, Germany and Switzerland.

Arthur Clark, Cambridge, Mass., has filed a voluntary petition in bankruptcy; liabilities, \$4795, of which \$117 is secured. There are about 70 unsecured creditors and no assets.

It is stated that John Hartje, a pioneer florist of Indianapolis, Ind., has retired from business and in the early fall will start on a tour of the world.

W. W. Seekins has recently secured a 99-years' lease upon the corner of Third avenue and Superior St., Duluth, Minn., and will erect a \$18,000 building thereon, with greenhouse in the rear. The store will be equipped with all modern conveniences.

Jackson & Perkins Company are establishing a specimen garden of roses which they intend shall eventually include all varieties that are sufficiently hardy for out-door planting in Western New York. More than seven hundred and fifty different kinds were set out the past spring, and many others will be added next season. In laying out the planting each class of roses was placed by itself, and under each class the kinds of similar colors are grouped together so as to facilitate the study and comparison of them. The garden will also be used as a place for carrying on hybridizations with a view to obtaining valuable new sorts, and especial attention is to be paid to this line of work in the future.

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	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	June 4		June 10		June 10		June 13	
ROSES								
Am. Beauty, Fan. & Sp.	30.00	to 35.00	25.00	to 30.00	20.00	to 25.00	15.00	to 17.00
" Extra.....	20.00	to 25.00	20.00	to 25.00	15.00	to 20.00	10.00	to 12.00
" No. 1.....	12.00	to 15.00	18.00	to 20.00	10.00	to 12.00	6.00	to 8.00
Lower grades.....	6.00	to 10.00	6.00	to 8.00	2.00	to 6.00	.50	to 3.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	8.00	to 10.00	8.00	to 10.00	4.00	to 6.00
" Extra.....	4.00	to 5.00	6.00	to 8.00	5.00	to 6.00	3.00	to 4.00
" No. 1 & lw. gr.	3.00	to 4.00	4.00	to 6.00	5.00	to 6.00	.50	to 1.00
Liberty, Richmond, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	10.00	to 15.00	6.00	to 8.00
Lower grades.....	4.00	to 5.00	6.00	to 8.00	2.00	to 6.00	.50	to 4.00
Chatenay, Morgan, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	6.00	to 8.00	3.00	to 5.00
Lower grades.....	3.00	to 4.00	6.00	to 8.00	2.00	to 4.00	.50	to 2.00
Killarney, Wellesley, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	6.00	to 8.00	6.00	to 8.00
Lower grades.....	3.00	to 4.00	6.00	to 8.00	2.00	to 4.00	1.00	to 3.00
CARNATIONS								
Fancy and Novelties.....	3.00	to 4.00	2.00	to 3.00	3.00	to 4.00	.75	to 1.00
Ordinary.....	1.50	to 2.00	1.50	to 2.00	1.00	to 2.00	.50	to .75
MISCELLANEOUS								
Sweet Peas.....	.50	to 1.50	.50	to .75	.25	to 1.00	.25	to .75
Cattleyas.....	50.00	to	50.00	to 60.00	50.00	to 60.00	35.00	to 60.00
Lilies.....	12.00	to 15.00	12.00	to 15.00	10.00	to 15.00	6.00	to 10.00
Callas.....	8.00	to 10.00	12.00	to 15.00	10.00	to 15.00	6.00	to 10.00
Lily of the Valley.....	2.00	to 4.00	2.00	to 3.00	2.00	to 4.00	2.00	to 4.00
Gardenias.....	.50	to 1.50	.50	to .75	5.00	to 10.00	1.00	to 1.50
Mignonette.....	4.00	to 8.00	3.00	to 5.00	2.00	to 3.00	1.00	to 2.00
Lilacs (100 bunches).....	25.00	to 50.00	.....	to	2.00	to 4.00	2.00	to 4.00
Peonies.....	6.00	to 8.00	8.00	to 10.00	5.00	to 8.00	4.00	to 8.00
Adiantum.....	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Smilax.....	15.00	to 18.00	20.00	to	15.00	to	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	50.00	to	50.00	to 75.00	to 50.00
" " & Spren. (100 bchs.)	35.00	to 50.00	to	50.00	to	35.00	to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON The flower market continues in a very inactive state with prices depressed to summer level. It is not unexpected, however, as not much business was looked for until the schools commence to close when a change for the better is likely to take place. Stock of all kinds is plentiful, full crops of everything being on and the rose growers holding their old plants in the benches later than usual on account of the cool weather. It follows that the quality generally is very good. Lilies, like everything else are in overstock.

The week following **BUFFALO** Memorial Day was a dull one. An over-supply of stock was had with no prospects of an outlet. A few days of the worst kind of weather at the beginning did not help an already depressed market and by Friday everything on the line was overflowing, especially roses of all qualities. They simply could not be moved from the refrigerators and counters. Sweet peas were also plentiful, while out door lilac, lily of the valley, tulips of fine quality were had in abundance. It is hoped that the coming week will improve and the market will be in normal condition.

Trade keeps right **COLUMBUS** along good and will until people begin to go away for the summer—if there is to be any summer this year. Stock of all kinds since Memorial Day has become very much more plenty. Some of the best American Beauties of the season are selling readily. On the whole the past week has been very satisfactory for all. The seedsmen are busy with both plants and counter sales, late as it is.

The past week was **INDIANAPOLIS** a busy one, weddings, commencements and other social events creating quite a demand. Prices are not what they were a week ago but are satisfactory. Roses are plentiful; enough fine stock to be had in almost any variety. Beauties are in good demand as there are no outdoor roses to be had yet. The demand for carnations is still good, the quality and supply holding up well. Lily of the valley is quite a favorite at the present time the supply equal to demand. Lilies, peonies and iris are a little late but are handled in fair quantities. Sweet peas could not be better and are to be had in any quantity. The market is well supplied with greens of all kinds, snailax and asparagus having a good demand. Outside planting trade still continues good and probably will be till July 1st owing to backward season.

The wholesale flower **NEW YORK** trade has been generally dull and unsatisfactory during the past week, albeit the retail establishments are fairly busy with seasonable affairs requiring the use of floral decorations; the latter will be short-lived, however, as, despite the cool weather, the exodus to country places and Europe is quite general. Collections are reported as exasperatingly slow in wholesale cir-

cles and the approach of a long, unproductive summer is not a pleasing prospect. Receipts of flowers are still heavy but will soon fall off.

The early part of **PHILADELPHIA** the week was very satisfactory in trade returns but towards the end the situation underwent a radical change with the climax on Saturday when stock had piled up to such an extent that the distributing centers were buried. Even the street men gave but little relief and those of them with courage to chance big lots at bargain prices came out at the wrong end. The weddings and commencements seemed to be all billed for the early part of the week leaving a surplus later. Beauty, Liberty, Richmond, Kaiserin, Bride and Bridesmaid are of very good quality and clean up moderately. Carnations are of good quality but the demand is weak. The orchid market is on an even keel, not much stock but enough for the call. Lily of the valley is very good and finds a satisfactory outlet. Lilies have shortened up considerably. Sweet peas are now of better quality and much more plentiful. Gardenias are a fairly good proposition, the demand being excellent but there is too much Southern stock coming in to suit the local growers.

Trade keeps up **TWIN CITIES** fine, with stock plentiful and heavy demand. Bride and Bridesmaid roses are especially in demand. Weddings and graduation exercises through the northwest, in addition to the large city business, have made trade much heavier than we have had it in years. Plant sales also continue to keep up nicely. The inclement weather prior to Decoration Day has prolonged the planting considerably, and we can say that we are now in the midst of the planting season.

Owing to the several warm days of the preceding week, there was quite an exodus of the flower buyers from Washington, and in consequence business is beginning to stagnate somewhat. There are a good many commencements, however, that will very materially benefit the florists for the remainder of the month. There are not so many June weddings on the tapis as usual, which may possibly be due to the inability of one to tell what season we are now in.

BUSINESS CHANGES.

Frank McVaugh of Summit, N. J., has leased the greenhouses of G. W. Binsted.

The business of the Haskell Avenue Floral Co., Dallas, Texas, has been bought by E. H. R. Green.

The business of J. M. North at 616 Vandeventer St., St. Louis, Mo., has been bought by the Red Bud Floral Co.

By the retirement of Samuel Graff from the firm of Graff Brothers at Columbus, Ohio, the style of the house will become William Graff. Mr. Samuel Graff will hereafter reside in Chicago.

NEWPORT TRADE NOTES.

Florists, dealers and growers, are satisfied that Decoration Day business this year was ahead of that of any previous occasion, a greater number of plants and flowers being sold than ever before at prices fully up to the standard of other years; in fact flowers were higher in price because the supply, as far as Newport was concerned, was very limited.

Every man interested in bedding plants is now hard at work on them in one way or another. The growers are busy taking orders and delivering and the jobbing gardeners who have no greenhouses are just as busy planting. Geraniums are not over plentiful, in fact there is a scarcity of some varieties of flowers. Scarlet seems to sell much better than pink this year, although Beaute Poitevine is still favorable and bringing more money than any other variety.

Joseph Leikens has opened his store on the avenue; Wadley & Smyth have done likewise; Mr. Spalding of Hodgson's is expected daily to open up.

Several of the big seed houses in New York had representatives here last week hunting up bulb orders. I have not heard of any from Boston being around yet, but I suppose they will be here just the same and fare as well as the early birds. Roses are late in all sections out doors, in consequence I think the Horticultural Society will be compelled to postpone the date of the exhibition. D. M.

PHILADELPHIA NOTES.

Mr. Fetters, of Smith & Fetters, Cleveland, O., was a visitor in Philadelphia on the 10th inst.

Peonies in this locality are now in evidence and will be a glorious show for the next three weeks. They are almost three weeks late in arriving, like everything else outside. Tuesday, the 18th, has been fixed for the annual display at Horticultural Hall under the auspices of the Pennsylvania Horticultural Society. Outdoor roses will also be a feature at the same time.

DURING RECESS.

Deeside and Buchan were much in evidence in Philadelphia on the 3rd inst, the redoubtable Birnie of West Hoboken, with the local Ginger Jar under his arm, making a round of visits and interviewing some of the leading growers. This was Mr. Birnie's first visit since the Centennial 31 years ago. Mr. Birnie had the blues that morning from having listened too long to Job the night before, but a few hours of Philadelphia sunshine and good company dispelled the gloom and tipped with rosy fingers the everlasting hills, which soon echoed merrily with the tuneful strains of Moneymusk and the Marquis of Huntly. Come again soon, oh tuneful sage!

The Waretown Rod and Gun Club will hold its annual opening on the 23rd inst. The Commodore of the club, John Westcott, is busy perfecting arrangements so that all who are lucky enough to get an invitation may have a good time. G. C. W.

The KERVAN CO. 20 WEST 27th ST., N. Y.

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Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending June 8 1907	First Half of Week beginning June 10 1907		Last Half of Week ending June 8 1907	First Half of Week beginning June 10 1907
Roses					
Am. Beauty, fan and sp.	12.00 to 25.00	12.00 to 25.00	Carnations, Ordinary	1.00 to 2.00	.75 to 1.50
" extra	8.00 to 10.00	8.00 to 10.00	Sweet Peas (100 bunches)	5.00 to 12.00	5.00 to 12.00
" No. 1	4.00 to 8.00	5.00 to 8.00	Cattleyas	40.00 to 60.00	40.00 to 60.00
" Lower grades	1.00 to 3.00	1.00 to 2.00	Lilies	4.00 to 6.00	4.00 to 6.00
Bride, 'Maid, Golden Gate, fan & sp	4.00 to 6.00	4.00 to 6.00	Callas	4.00 to 6.00	4.00 to 6.00
" " " Extra	3.00 to 4.00	3.00 to 4.00	Lily of the Valley	1.50 to 3.00	1.50 to 3.00
" " " No. 1 & lw. gr.	1.50 to 3.00	1.00 to 3.00	Gardenias	2.00 to 10.00	2.00 to 10.00
Liberty, Richmond, fancy & special	6.00 to 12.00	6.00 to 8.00	"	1.00 to 2.00	1.00 to 2.00
" lower grades ..	1.00 to 4.00	1.00 to 4.00	Lilacs (100 bunches)	15.00 to 25.00	..... to
Chatenay, Morgan, fancy and spec.	4.00 to 6.00	4.00 to 6.00	Peonies	5.00 to 8.00	4.00 to 6.00
" lower grades ..	1.50 to 3.00	1.00 to 2.00	Adiantum .....	.50 to .75	.50 to .75
Killarney, Wellesley, fan. and spec.	5.00 to 8.00	4.00 to 6.00	" Croweanum	1.00 to 1.50	1.00 to 1.50
" lower grades ..	2.00 to 3.00	1.00 to 3.00	Smilax	10.00 to 15.00	10.00 to 15.00
Carnations, Fancy and Novelties..	2.00 to 4.00	1.50 to 3.00	Asparagus Plumosus, strings ..	25.00 to 35.00	20.00 to 30.00
			" & Spreng. (100 bchs.) ..	10.00 to 25.00	10.00 to 20.00

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PHONES. 1664--1665 MADISON SQUARE
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EXTRA FINE FANCY and DAGGER FERNS \$2.50 per 1000

DISCOUNT ON LARGER ORDERS

GREEN and BRONZE GALAX, \$1.25 per 1000, LEUCOTHOE SPRAYS, \$1.00 per 100, \$2.50 per 1000
\$2.50 Case of 10,000 Let us have your standing order for Fern. BOXWOOD 20c lb., 50 lbs. \$8.50

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Sizes in Stock per 100

3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
6 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

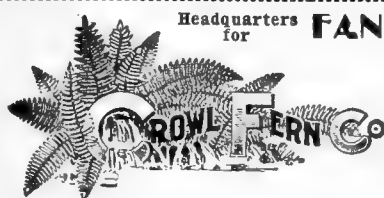
Write for samples and prices in car load lots.

GETMORE BOX FACTORY, Incorporated,
BELLEVILLE, ALA.

EXPRESS RATES IN CANADA.

Consul-General Church Howe, of Montreal, calls attention to the following official order governing the express rates in Canada:

All express companies operating in Canada are now subject to the jurisdiction of the board of railway commissioners for Canada. Under the railway act no company shall carry any goods by express until their rates have been submitted to and approved of by the board. All rates, except joint rates of tolls between Canada and points outside of Canada, were filed and approved before the 1st of May. All other rates must be approved before July 1, 1907. As a general investigation of express matters is being held, those interested must file complaints in regard to excessive rates or other grievances they may have with the transportation department of the association at an early date.



Headquarters for

FANCY and DAGGER FERNS

SELECTED STOCK

Fancy, \$1.75 per 1000; Daggers, \$1.50 per 1000. Laurel Festooning, best made, 4c, 5c and 6c per yard; once used, always used. Laurel Wreaths, \$3.00 per doz.; cheaper grades if wanted. Southern Smilax, fancy stock, 50-lb. case, \$5.50. Branch Laurel, 35¢ per bunch. Princess Pine, 7c per lb. Brilliant, Bronze or Green Galax, No. 1 stock, 75c per 1000, or \$6.50 per case of 10,000.

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EVERGREEN, AND FLORISTS' SUPPLIES.

15 Province St. & 9 Chapman Pl., Boston, Mass.

WHOLESALE FLOWER MARKETS. — PER 100. TO DEALERS ONLY.

	CINCINNATI May 28	DETROIT June 9	BUFFALO June 10	PITTSBURG June 10
ROSES				
Am. Beauty, Fan. and Sp.	25.00 to 30.00	..... to	20.00 to 22.00	20.00 to 25.00
“ Extra	20.00 to 25.00	20.00 to 25.00	15.00 to 20.00	12.50 to 15.00
“ No. 1	15.00 to 20.00	15.00 to 18.00	8.00 to 15.00	6.00 to 8.00
“ Lower grades	6.00 to 10.00	8.00 to 12.00	3.00 to 5.00	3.00 to 4.00
Bride, 'Maid, Golden Gate, F. & S.	..... to 8.00	6.00 to 8.00	7.00 to 8.00	8.00 to 10.00
“ “ “ Extra	5.00 to 6.00	4.00 to 6.00	6.00 to 7.00	..... to 6.00
“ “ “ No. 1 & lw. gr.	3.00 to 4.00	2.00 to 4.00	2.00 to 6.00	2.00 to 3.00
Liberty, Richmond, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	8.00 to 10.00
“ Lower grades	4.00 to 6.00	2.00 to 4.00	3.00 to 10.00	3.00 to 5.00
Chatenay, Morgan, Fan. & Sp.	..... to 8.00	6.00 to 8.00	10.00 to 15.00	8.00 to 10.00
“ Lower grades	4.00 to 6.00	2.00 to 4.00	3.00 to 10.00	3.00 to 4.00
Killarney, Wellesley, Fan. & Sp.	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	6.00 to 8.00
“ Lower grades	2.00 to 4.00	2.00 to 4.00	3.00 to 10.00	4.00 to 5.00
CARNATIONS				
Fancy and Novelties	2.00 to 3.00	2.00 to 3.00	2.50 to 3.00	2.00 to 3.00
Ordinary	1.00 to 2.00	1.00 to 2.00	1.50 to 2.50	..... to 1.50
MISCELLANEOUS				
Sweet Peas	.25 to .50	.25 to 1.00	.40 to 1.00	.50 to 1.00
Cattleyas	..... to	50.00 to .....	..... to	10.00 to 50.00
Lilies	10.00 to 12.00	12.50 to 15.00	8.00 to 12.00	10.00 to 15.00
Callas	8.00 to 10.00	12.00 to 15.00	8.00 to 10.00	8.00 to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	..... to 4.00
Gardenias	1.00 to 2.00	..... to	1.00 to 3.00	..... to
Mignonette	1.00 to 2.00	.25 to 1.00	1.00 to 3.00	..... to
Lilacs (100 bunches)	3.00 to 4.00	..... to .....	..... to .....	..... to
Peonies	4.00 to 6.00	5.00 to 8.00	..... to	5.00 to 6.00
Adiantum	..... to 1.00	1.00 to 1.50	.50 to 1.00	1.00 to 1.50
Smilax	12.00 to 15.00	12.50 to 15.00	15.00 to 20.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	20.00 to 30.00	40.00 to 50.00	30.00 to 50.00
“ “ & Spreng. (100 bchs.) to 25.00	20.00 to 30.00	25.00 to 50.00	25.00 to 50.00

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Beaven's Fadeless Moss

Natural Sheet Mosses

E. A. Beaven, Evergreen, Ala.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 28 State St., Boston.
For page see List of Advertisers.

ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons,

51 and 52 N. Market St., Boston.
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AQUATICS

Water hyacinths, \$2.00 per 100.
C. W. Bakewell, Gretna, La.

ARAUCARIAS

A. Leuthy & Co., Roslindale, Mass.
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ASPARAGUS

C. Elsele.

11th and Roy Sts., Philadelphia, Pa.
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Wm. C. Smith, 61st and Market Sts., Philadelphia.

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Asparagus plumosus nanus and Sprengeri, 2 1-2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2 in., \$3.00; 3 in., \$6.00; 4 in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2 in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 885 Ellcott St., Buffalo, N. Y.

ASTERS.

Asters. Samples mixed, twice transplanted, \$1.00 per 100. Willow Brook Greenhouses, Fayetteville, N. Y.

AUCTION SALES

Bedding plants, trees, shrubs, conifers, bay trees, etc., every Tuesday and Friday. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

AZALEAS

A. Leuthy & Co., Roslindale, Mass.
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BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

J. E. Felthousen, Schenectady, N. Y.
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C. Elsele, 11th and Roy Sts., Phila.
Spring Bedding Plants.

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John Scott, Rutland Road & 45th St., Brooklyn, N. Y.
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BEDDING PLANTS—Continued.

100,000 Bedding Plants, all sorts. Write for prices. E. D. Kaulback & Son, Malden, Mass.

Spring Bedding Plants in variety at auction every Tuesday and Friday during spring season. Purchases made on order. Mail your bid. N. F. McCarthy & Co., 84 Hawley St., Boston.

BEGONIAS

Wm. Elliott & Sons, 201 Fulton St., N. Y.
Tuberous Begonias.

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Begonia Gloire de Lorraine. Extra fine, 2 1-4 inch pot. Leaf cutting \$12 per 100; \$100 per 1000. Delivery May 1st. Julius Roehrs Co., Rutherford, N. J.

BOILERS

Kroeschell Bros., 35 Erie St., Chicago.
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BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BOUVARDIAS

A. N. Pierson, Cromwell, Conn.
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BOXWOOD

Anton Schultheis, College Point, N. Y.
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BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

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A. T. Boddington, 342 W. 14th St., N. Y.
Cold Storage Lilies.

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Rickards Bros., 37 East 19th St., New York.
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H. F. Michell Co., Philadelphia.

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Johnson Seed Co., 217 Market St., Phila.
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Jonh Scheepers & Co., Arnhem, Holland.
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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

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A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.

Calla Bulbs.

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James Vick's Sons, Rochester, N. Y.

Import Fall Bulbs.

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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

Price list of native bulbs, tree shrubs and plant seeds now ready. L. E. Williams, Nottingham, N. H.

CANNAS

The Conard & Jones Co., West Grove, Pa.
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Cannas, Austria, 3 in., 5 cents, cash. Shippensburg Floral Co., Shippensburg, Pa.

CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.

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Chicago Carnation Co., Joliet, Ill.

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F. Dörner & Sons Co., Lafayette, Ind.
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Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by Glass.

CEDAR BEAN POLES

1 1-2 inch butt, 5 ft. to 7 ft. long, \$10.00 per 1000; 2 inch butt, 8 ft. long, \$15.00 per 1000; 2 1-2 inch butt, 10 to 12 ft. long, \$22.50 per 1000. H. R. Akers, Chatsworth, N. J.

CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
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W. W. Edgar Co., Waverley, Mass.
Chrysanthemums.

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S. S. Skidelsky, 824 N. 24th St., Philadelphia.

Chrysanthemum Golden Dome.

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A. N. Pierson, Cromwell, Conn.

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Rooted cuttings of October Frost and Fidelity Chrysanthemums. \$5.00 per 100. Frank Shearer & Son, Binghamton, N. Y.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting, 383 Ellcott St., Buffalo, N. Y.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$15.00 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

COLEUS

A. N. Pierson, Cromwell, Conn.
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Coleus. Golden Redder and Verschaffeltii from 2 1-2 in. pots, \$2.50 per 100. H. W. Mann, Stoughton, Mass.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Wm. H. Moon Co., Morrisville, Pa.
American Arborvitae.

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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

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Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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CYCLAMEN.

Giant Hybrids transpl. ready for 2-in. and 3-in., \$3.50 100; \$30.00 1000. Plants grown of seed taken from the cream of my well known strain. Christ. Winterich, Cyclamen Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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Dahlias, strong field roots, good assortment to exchange for plants of Carnation Boston Market, Enchitress H. W. Mann, Stoughton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

K. E. Juul, Elizabeth, N. J.

Dracaena Indivisa.

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Anton Schultheis, College Point, N. Y.
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Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

FERNS

Baur Floral Co., Erie, Pa.

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A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitman.

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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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The F. R. Pierson Co.,

Tarrytown-on-Hudson, N. Y.

Nephrolepis Piersoni Elegantisima.
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Wm. C. Smith, 61st and Market Sts., Philadelphia.

Boston and Scottil Ferns.

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FICUS

Baur Floral Co., Erie, Pa.

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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.

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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.

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Koral Mfg. Co., 26 Hawley St., Boston.
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FLORISTS SUPPLIES

N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

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H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.

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The Kervan Co., 20 W. 27th St., N. Y.

Decorative Evergreens.

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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.

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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

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FLOWERS BY TELEGRAPH

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Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.

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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.

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Thos. Young, Jr., 41 W. 28th St., N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.

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Samuel Murray, 1017 Broadway, Kansas City, Mo.

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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.

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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.

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William J. Smyth, Michigan Ave and 31st St., Chicago.

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Wm. H. Rock Flower Co., Kansas City, Mo.

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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.

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Park Floral Co., Denver, Colo.

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Thos. F. Galvin, 124 Tremont St., Boston.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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David Clarke's Sons, 2139-2141 Broadway, New York.

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W. H. Donohoe, 2 W. 29th St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.

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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.

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FUCHSIAS

Baur Floral Co., Erie, Pa.

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GALAX

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

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Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

GERANIUMS

J. E. Felthousen, Schenectady, N. Y.
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R. Vincent, Jr., & Son, White Marsh, Md.
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A. G. Lake, Wellesley Hills, Mass.
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R. Engelman & Son, Pittsfield, Mass.
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Geraniums—Jean Vland, 4 in., \$6.00 per 100; Mme Sallerol, 2 in., \$2.50 per 100. William Doel, Pascoag, R. I.

Geraniums from 3 1/2 in. pots, S. A. Nutt, Jean Vland, Le Cœlle, Thos. Mechau, \$7.00 per 100. H. W. Mann, Stoughton, Mass.

Geraniums true for stock—Trego, Ricard, Poitevine, Vland, M. Bruant, Gaar, Bismarck, 2 1/4 in.; Doyle, Telegraph, La Favorite, Hill, New Life, Nutt, Dbl. Grant, Jaulin, 2c. Cash please. Roney Bros., West Grove, Pa.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

GLASS

Boston Plate & Window Glass Co., Boston.
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GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.

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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.

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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.

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Weathered Co., Box 789, New York.

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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.

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S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.

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D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.

GREENHOUSE CONSTRUCTION

Frank Van Assche, Jersey City, N. J.

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

In writing to Advertisers kindly mention Horticulture

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St.,
and 9 Chapman Pl., Boston, Mass.
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Crowl Fern Co., Millington, Mass.
Fancy and Dagger Ferns.
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The Kervan Co.,
20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 & 40 Broad-
way, Detroit, Mich.
Fancy Ferns.
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E. A. Beaven, Evergreen, Ala.
Fadeless Sheet Moss.
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A full line of ferns, galax, and all wild
greens. N. F. McCarthy & Co., 84 Haw-
ley St., Boston.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Kroeschell Bros., 35 Erie St., Chicago.
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W. W. Castle, 170 Summer St., Boston.
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Johnston Heating Co., 1133 Br'dway, N. Y.
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HORSES

Useful work-horses for florists' spring
work; also florists' delivery wagons, good
as new. Edward Higgins, 1 West 28th
St., New York.

HERBACEOUS PLANTS

Bobbink & Atkins, Rutherford, N. J.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset,
Mass.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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HOT WATER CIRCULATOR

W. W. Castle, 170 Summer St., Boston.
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HYDRANGEAS.

John C. Hatcher, Amsterdam, N. Y.
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The F. E. Conline Nursery Co., Stratford,
Conn.
Blue Otaksa Hydrangea.
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INSECTICIDES.

Nicoticide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Louisville, Ky.
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JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St.,
New York.
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KENTIAS

A. Leuthy & Co., Roslindale, Mass.
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LAWN AND CEMETERY VASES

Kramer Bros. Foundry Co., Dayton,
Ohio.
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LAWN MOWER

Clipper Lawn Mower Co., Dixon, Ill.
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LEADING RETAIL FLORISTS

Alex. McConnell, New York.
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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis,
Mo.
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J. Breitmeyer's Sons, Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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Gude Bros. Co., 1214 F St.,
Washington, D. C.
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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Bvd.,
St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13
Congress St., Chicago.
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William J. Smyth, Michigan Ave. and 31st
St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Atlanta Floral Co., Atlanta, Ga.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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David Clarke's Sons, 2139-2141 Broadway,
New York.
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W. H. Donohoe, 2 W. 29th St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LIVISTONIAS

Livistonia Rotundifolia. Well leaved and
clean, \$6, \$9, \$12 per doz. J. Roehrs Co.,
Rutherford, N. J.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in.
stock, \$2.00 per doz. Julius Roehrs Co.,
Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MISCELLANEOUS PLANTS.

	Per 100
200 3 1-2 in. pots Rose Geraniums..	7.00
2000 3 1/2 in. pots Geraniums.....	7.00
2000 2 1-4 in. pots Glechoma and Ger-	
man Ivy	2.00
25,000 strong transplanted Asters, leading	
sorts, 75c. per 100, \$6.00 per 1000.	
200 Vencia Variegated, 3 1/2 in.....	6.00
500 Alternanthera Brilliant, 2 1/4 in.....	2.00
Cohanzie Carnation Greenhouses, New London, Conn.	

MOON VINES

Godfrey Aschmann, 1012 Ontario St., Phila.
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MOSCHOSMAS

Moschosma riparium, a valuable new
Christmas flowering plant. Write for de-
scriptive circular and price list. Chas. H.
Totty, Madison, N. J.

NICO-FUME

Kentucky Tobacco Product Co., Louisville,
Ky.

NIKOTEEN APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.
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The Conard & Jones Co., West Grove, Pa.
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The F. E. Conline Nursery Co., Stratford,
Conn.

Blue Otaksa Hydrangeas.
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The Wm. H. Moon Co., Morrisville, Pa.
American Arborvitae.
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Oak Hill Nurseries, 114 Poplar St.,
Roslindale, Mass.
Berberis Thunbergii.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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Nursery Stock. N. F. McCarthy & Co.,
84 Hawley St., Boston, Mass.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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A. Held, 11-19 William St., New York.
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Selbrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.
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Jos. A. Manda, 191 Valley Road, W.
Orange, N. J.
Orchids, Orchid Baskets, Peat.
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Ordenez, De Nave & Co., Madison, N. J.,
Box 105.
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PALMS

A. Leuthy & Co., Roslindale, Mass.
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Siebrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.
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Anton Schultheis, College Point, N. Y.
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PAINT AND PUTTY

PAINT AND PUTTY: Ideal Greenhouse
Lead; Special Greenhouse Putty. Lord &
Burnham, 1133 Broadway, N. Y.

PANSY PLANTS.

Large, strong transplanted Pansy Plants.
Dreer's Royal Exhibition and Vaughan's
International, \$1.00 per 100; \$7.50 per 1,000;
smaller transplanted, \$5.00 per 1,000. Send
for sample and price list of other plants.
Frank Shearer & Son, Binghamton, N. Y.

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PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

RAFFIA

Raffia, prime long fiber, sound and strong, ten cents the pound, nine dollars the hundred pounds; terms cash. A. Rolker & Sons, New York. P. O. Box 759.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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McHutchison & Co., 17 Murray St., N. Y.
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F. R. Pierson Co., Tarrytown, N. Y.
F. W. Kelsey, 150 Broadway, N. Y.

ROSES

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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A. N. Pierson, Cromwell, Conn.
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The Conard & Jones Co., West Grove, Pa.
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Bay State Nurseries, No. Abington, Mass.
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Thomas Roland, Nahant, Mass.
Lady Gay Roses.
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John C. Hatcher, Amsterdam, N. Y.
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Montrose Greenhouses, Montrose, Mass.
Grafted Brides and Maids on English Manetti.
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P. R. Quinlan, Syracuse, N. Y.
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Benjamin Dorrance, 3 Dorrance Farm, Dorranceton, Pa.
Rose Plants.

Bobbink & Atkins, Rutherford, N. J.
Grafted Brides and Maids on Maples.
Low-budded roses, No. 1, \$95.00; No. 11-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

1500 American Beauty Plants in 4 in. pots, at \$10.00 per 100; \$80.00 per 1000. Address John Klotzmann, Madison, N. J.
Roses, Bride, Bridesmaid, Ivory, 2 1/2 in., shifted from 2 in., \$3.00 per 100; \$25.00 per 1000. Wm. B. Sands, Lake Roland, Md.

Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1/4 in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SEEDS

T. J. Grey & Co., 32 So. Market St., Boston, Mass.
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Joseph Breck & Sons
51 and 62 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co., 33 Barclay St., N. Y.
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A. T. Boddington, 342 W. 14th St., N. Y.
Primula Seed.
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H. F. Michell Co., 1017 Market St., Phila.
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James Vick's Sons, Rochester, N. Y.
Aster Seed.
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Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Rickards Bros., 37 E. 19th St., New York.
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Johnson Seed Co., 217 Market St., Phila.
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R. & J. Farquhar & Co., 6-7 So. Market St., Boston.
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Wm. Elliott & Sons, 201 Fulton St., N. Y.
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C. C. Morse & Co., 48-56 Jackson St., San Francisco, Cal.
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H. E. Fiske Seed Co., Faneull Hall Sq., Boston.
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Augustus Zirngiebel, Needham, Mass.
Giant Pansies.
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I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

Surplus Garden Peas—50 bu. Alaska, \$3.25 per bu.; 40 bu. First and Best, \$2.00 per bu. New crop northern Michigan grown; none better. W. F. Allen, Salisbury, Md.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston.
Pulverized Sheep Manure.
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SHEET MOSS

E. A. Beaven, Evergreen, Ala.
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SMALL FRUIT PLANTS

Dewberry plants, Lucretia and Austin, \$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00 per 1000, \$25.00 per 5000; Turner red raspberry plants, \$6.00 per 1000, \$25.00 per 5000. W. F. Allen, Salisbury, Md.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.

STRAWBERRY PLANTS

Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

VEGETABLE PLANTS

Tomatoes, \$6.00 per 1000. Willow Brook Greenhouses, Fayetteville, N. Y.

50,000 large 4-year old Barrs Mammoth Asparagus roots, \$6.00 per 1000; \$25.00 per 5000. (500 will fill a sugar barrel.) Address W. F. Allen, Salisbury, Md.

We can furnish Strawberry plants and Asparagus roots from April first to December first. Spring prices hold until August first. Hitchcock's Nursery, Agawam, Mass.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Weathered Co., 46-48 Marlon St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Advance Co., Richmond, Ind.
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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VENTILATING MACHINERY, New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1133 Broadway, N. Y.

VIOLETS

H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.

WEED KILLER

Amer. Horticultural Distributing Co., Martinsburg, W. Va.
Target Brand Weed Killer.
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WILD SMILAX

E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 88-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

All standard frames in stock. Special designs made to order in hurry-up time. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

WHOLESALE FLORISTS

Boston

N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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George A. Sutherland Co., 34 Hawley St., Boston.
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Welch Bros., 226 Devonshire St., Boston.
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In writing to Advertisers kindly mention Horticulture

WHOLESALE FLORISTS— Continued Buffalo

Wm. F. Kasting, 383-37 Ellcott St., Buffalo, N. Y.
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Chicago

Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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A. L. Randall Co., 19-21 Randolph St., Chicago.
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E. F. Winterson Co., 45-49 Wabash Ave., Chicago.
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Poehmann Bros. Co., 35 Randolph St., Chicago.
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Detroit

Michigan Cut Flower Exchange, 38 & 40 Broadway.
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New York

J. K. Allen, 106 W. 28th St., New York.
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Wm. Stuart Allen Co., 53 W. 28th St., New York.
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J. S. Fenrich, 110 W. 28th St., New York.
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Ford Bros., 48 W. 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 W. 28th St. New York.
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E. C. Horan, 55 W. 28th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
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Chas. Millang, 50 W. 29th St., New York.
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John I. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Traendly & Schenck, 44 W. 28th St., New York.
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A. L. Young & Co., 54 W. 28th St., New York.
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John Young, 51 W. 28th St., New York.
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Philadelphia

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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Leo Niessen Co., 1209 Arch St., Philadelphia, Pa.
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The S. S. Pennock-Meehan Co., 1608-18 Ludlow St., Philadelphia, Pa.
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Edward Reid, 1526 Ranstead St., Philadelphia, Pa.
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Pittsburg

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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New Offers in This Issue.

AMERICAN BEAUTY PLANTS.

Chicago Carnation Co., Joliet, Ill.
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ASPARAGUS SPRENGERII.

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John C. Hatcher, Amsterdam, N. Y.

CHALLENGE PANSY SEEDS.

A. T. Boddington, 342 W. 14th St., N. Y.
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KINGLY PRIZE-WINNER PANSIES.

Johnson Seed Co., Philadelphia.
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PANSY, CENERARIA, PRIMULA SEEDS.

H. F. Michell Co., Philadelphia.
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"Nothing except the mint can make money without advertising."—GLADSTONE.

Gentlemen:—Kindly discontinue my advertisements of Hanging Baskets as I am way behind on orders.

Respectfully,

F. W. BALL.

Cincinnati, Feb. 18, 1907.

Please discontinue my ads. for now. Will have some more stock to offer and shall be glad to send my ad. to HORTICULTURE.

JOHN STAMM.

Hutchinson, Kan., Mar. 18, 1907.

Please discontinue my geranium ad. I have so many inquiries for plants and I am sold out of the small sizes I advertised.

WM. DOEL.

Pascoag, R. I., April 13, 1907.

Take out the geraniums and salvias from my advertisement. Through this advertisement in HORTICULTURE I have disposed of my surplus stock of both.

R. L. GOINSALVOS.

Waltham, Mass., April 27, 1907.

Would say and glad to say that I am sold out of my pansy stock. Thanking you very kindly for the immense business your paper has alone favored us with,

Yours truly,

WM. DOBBERTIN.

Rochester, N. Y., April 29, 1907.

You will please not repeat our large advertisement of last week, as the goods we offered have all been sold. Over \$500 worth of direct sales from one offer pays us well, as in fact all our advertising in HORTICULTURE does.

A. H. HEWS & CO., Inc.

Cambridge, Mass., April 25, 1907.

"When you pay more for the rent of your business house than for advertising your business, you are pursuing a false policy."—FRANKLIN.

If you want to do business
Advertise in Horticulture.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

HORTICULTURE needs a wide-awake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

WANTED—First class gardener for a commercial house. Must be a good grower of Chrysanthemums, Asparagus, all varieties of ferns, all classes of bedding stock, and a good designer of Floral work. Able to take complete charge of 25,000 ft. glass, and 10 acres of land. Address, stating wages expected, and references, E. A. Butler & Son, Niagara Falls, N. Y.

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BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

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Additions.

Flint, Mich.—D. P. Smith, range of houses.

Middletown, O.—Fred Bahm, vegetable houses.

Wausau, Wis.—M. Phillips, one house 120x120.

Sioux Falls, S. D.—G. A. Thomas, one house 14x60.

Wyomissing, Pa.—G. W. Beears, range of houses.

Indianapolis, Ind.—Baur & Smith, one house 25x360.

Rushville, Ind.—G. F. Moore, four houses, each 125 feet.

Summer, Wash.—Woodland Park Floral & Seed Co., range of houses.

LIST OF PATENTS.

Issued May 28, 1907.

- 854,754. Wheeled Cultivator. John E. Miller, Western Springs, Ill.
- 854,786. Draft Equalizer. William P. Wild, Osnobrock, N. D.
- 854,821. Sulky Plow. William S. Graham, Canton, Ill.
- 854,909. Plow Attachment. Calvin L. Polk, Mariin, Texas.
- 854,924. Draft Equalizer. Benjamin J. Brunke, Campbell, Nebr.
- 854,921. Plow. Robert A. Armstrong, Avonmore, Ont., Canada.
- 855,126. Manure Spreader. Erik Plam, Eldred, Minn.
- 855,247. Agricultural Implement. Joel J. Hurt, South Omaha, Nebr., assignor to Emerson Mfg. Co., Rockford Ill.
- 855,283. Manure Fork. William H. Compton, Minneapolis, Minn.
- 855,313. Furrow Plow & Roller. Charles E. Holbrook, Carson City, Nevada.
- 855,372. Lister Cultivator. August E. Wilshusen, Stafford, Kans.
- 855,547. Weeder and Hoe. Lewis E. Whitaker, Sussex, N. J.
- 855,593. Guano Distributor. Robert W. Starling, Berrien County, Ga.
- 855,630. Seed Planter. Felix G. Green, Sedalia, Mo.
- 855,678. Plow and Seeder. Frank Thurrid, St. Louis, Mo.
- 855,720. Ditching Plow. Edward W. Moody, Lewistown, Mont.
- 855,902. Agricultural Implement. William J. Orr, Westplains, Mo.
- 856,033. Harrow Attachment for Plows. Joseph L. Crisler, Perth, Kans.

The Electric Circulator, that simple but effective little invention for overcoming all trouble with defective hot-water circulation has received another most enthusiastic endorsement—this time from Mr. E. V. R. Thayer and his superintendent E. O. Orpet, of South Lancaster, Mass.—as to its efficiency and its fuel-saving capability.

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CATALOGUES RECEIVED.

Seibrecht & Son, New Rochelle, N. Y.—List of New Rare and Beautiful Plants. An illustrated and descriptive hand-book well filled with desirable novelties and standard greenhouse and conservatory plants.

"Kroeschell Boilers." This is a handsome album just issued by the Kroeschell Bros. Co., of Chicago, Ill. It contains numerous engravings of the popular greenhouse boilers, fittings, etc., manufactured by this company with testimonials as to their efficiency. It will be worth while for everyone contemplating any change or addition to their heating equipment to send to Kroeschell Bros. Co. for a copy.

Luther Burbank, Santa Rosa, Cal.—The New Agricultural-Horticultural Opuntias. This interesting publication gives a complete list of the spineless opuntias, which it pronounces The Fodder Plant for Arid Regions, with directions for culture, etc. It is stated that the best of these improved spineless opuntias when grown under favorable conditions in good cultivated soil in a warm climate may confidently be expected to produce 100 tons of feed per acre each season. The pamphlet contains a number of fine half-tone illustrations.

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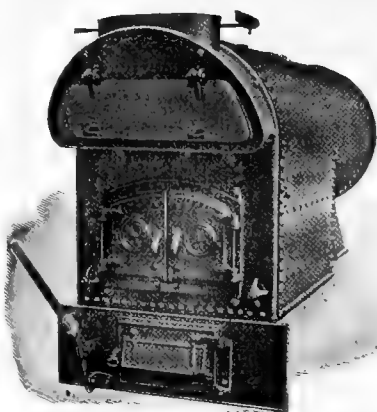
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Gen. William J. Palmer, the founder of Colorado Springs, is about to present to that city a chain of parks covering 1500 acres. The work of construction was begun in January, 1904, and the natural beauties of the landscape are carefully preserved. Lilacs, snowballs, Russian olives and evergreens of all kinds have been planted. In one spot is a wild garden in which Colorado's native flowering plants and shrubs are planted in groups so that blossoms will be found during the entire season.

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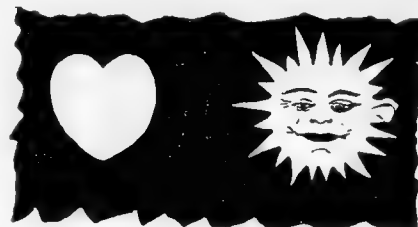
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(Signed) E. O. ORPET.

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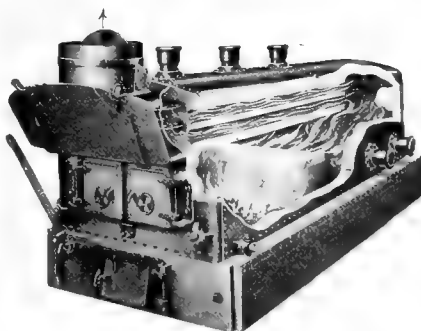
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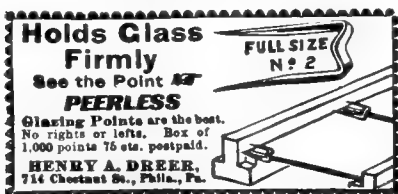
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HORTICULTURE

Vol. V.

JUNE 22, 1907

No. 25



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Usefulness of the Late Tulips

It is very gratifying to note the great interest that has been taken this season in the different species and varieties of tulips. Undoubtedly, the coolness of the season is largely responsible for this great revival. There has been more actual interest this season than has been shown for several decades, not only in this country, but all over Europe.

Tulips have lasted in bloom a long time, giving persons a better chance to know them, and to enjoy their pleasing flowers. With the knowledge we have of the various species and varieties there is no reason why we should not enjoy the tulip season for at least two months each year. Many will agree with me that they give us the most conspicuous and brilliant display of any hardy plants we have in our gardens. Their gaudiness and brilliancy can easily be overdone by planting too large or too many beds. There are many other ways and places besides beds where they can be used to advantage and where their bright colors will be softened and subdued.

The tulip has been in cultivation for a very long time and its history is probably more interesting than that of any other cultivated plant we have in our gardens. We have read and heard about the enormous prices which have been paid for rare orchids, but never has the craze for orchids or any other class of plants reached such a high point of enthusiasm as was demonstrated during the tulip mania in Holland about three centuries ago.

THE TULIP MANIA

In ancient gardening literature there is an account of a public sale in the year 1637 at a place about twenty miles outside of Amsterdam, where one hundred and twenty bulbs were sold at public auction for the enormous price of 90,000 guilders or about \$41,187. One of these bulbs called Admiral of Enchyson, with its offsets was afterwards sold for 5,200 guilders or about \$2,437. Two others called Brabanters were sold for \$1,970. In the middle of the seventeenth century a tulip named Semper Augustus was sold for \$4,600, together with a new carriage and pair of horses with harness, the whole being worth about \$3,000. At another time a bulb supposed to be the same as the last was sold for twelve acres of good land. It is also of interest to note that not only the names and prices of these valuable varieties were set down in the city register, but the weight of each bulb was carefully put down. This craze and speculation went on to such an extent that the government had to step in and put a stop to it. When one reads of the fortunes made and lost with these beautiful plants it is not surprising that we cultivate and love them still.

Now is the time to make notes and to take account of the kinds we admire the most, so that we can procure them for planting next fall. As we said before we can



Tulip Golden Crown.

easily have flowers for at least two months by beginning with the early kinds such as the Duc Van Thols, then intermediate kinds and ending up the season with the late May flowering species and varieties and the Darwins. Nearly every one knows the common early kinds and these notes are written to call attention to the intermediate and late flowering sorts which are not so well known. Also to point out the excellent qualities they possess as cut flowers. Before the peonies come into bloom there are no plants in blossom out of doors that will compare for cutting with the late species and varieties of tulips. They are graceful and handsome and they possess excellent keeping qualities when cut.

THE BEST INTERMEDIATE KINDS

A dozen of the best intermediate kinds would include the following: Artus, scarlet with yellow base; Belle Alliance, scarlet; Chrysolora, yellow; Duchess of Parma, red border with yellow; Cottage Maid, rose pink shaded on white; Keizerskroon, red with yellow border; La Reine, white; Joost Van Vondel, white; Pottebakkers, scarlet, white and yellow; Proserpine, carmine rose; Vermillion Brilliant, scarlet; Thomas Moore, orange.

BIZARRES, BREEDERS, ETC.

In the bizarres, bybloemens, roses and breeders there are many quaint and pleasing colors. There are many persons who cannot recognize the difference between these kinds. The principal reason for this is that they are badly mixed up probably by careless handling. We have a bed each of bizarres, bybloemens, roses and breeders. The roses and breeders all come true but the

bizarres and hybloemens are badly mixed up. The bizarres have yellow grounds shaded with violet or purple; the hybloemens have white grounds painted with rose or cherry red. The breeders are plain colored, called Mother tulips. They make excellent border plants, have very long flower stems and can be had in almost all colors.

THE DARWINS

The Darwins are improved breeders and are exceptionally valuable for their lateness of flowering and very long stems. When the flowers first open the petals are rather short, but in a few days they lengthen out considerably. Some of the varieties have miserable colors while other are exceptionally attractive. Some of the finest varieties are the following: Margaret, rosy pink, with a pale blue base; Glory, early, fiery scarlet; Gustave Dore, rather early, pink; Liberia, early, very dark; Angelina, soft rose; Beatrice, carmine rose; Clara Butt, very fine form, delicate salmon rose; Europe, carmine; La Candeur, white; May Queen, rose and pink; Painted Lady, milky white; Pride of Haarlem is the finest variety of all the Darwins, in my opinion. It has finely formed cerise-scarlet flowers. The Sultan has medium sized flowers of deep velvety black. Another dark variety with finely shaped flowers is Zulu. For a good bright colored early kind there is nothing better than Sieraad Van Flora, color vivid rosy red. There are many more varieties but those mentioned are the cream of the kinds that have been grown this year.

When the Darwin tulips are better known they are sure to become favorites with florists for cut flowers. They last for two weeks when cut. They are very effective as border plants, their tall stems and striking flowers being quite conspicuous.

Robert L. Luman

To be Continued.

Roses Under Glass

AMERICAN BEAUTY

Many of the large growers have, during the past few years, planted a number of houses as early as February in order to maintain a supply of Beauties all the year round. The majority of growers, however, do not possess a sufficient amount of glass to enable them to adopt this practice, and June usually finds them still hesitating.

Planting should now be pushed forward as vigorously as possible, so that the young stock may make some headway before the real hot weather commences. Every day of delay now is curtailing the growing season, cutting off, in fact, the best and most active part of it. Beauties should have a long season of growth to develop a stocky, bushy plant, before putting them into crop, if we desire to have them in good bearing shape by the holiday season, when the demand is good and prices fair.

THE RISKS OF EARLY PLANTING

The fetes, entertainments, etc., attending college commencements often call for large supplies of Beauties and other roses, which is an inducement to defer plant-

ing for a week or two, under the impression that this is a saving method and that by greater care and attention to the younger stock they may be brought to the same stage of development as those which were planted earlier. Late planted Beauties, however, in order to catch up even in appearance with early planted stock, require more attention and coddling and are usually hustled along at such a rapid rate that the growth is too soft and spongy to enter on the winter with a fair chance to set their buds in time for the best and most remunerative market of the season.

ESSENTIALITY OF AIR AND WATER

Too much importance cannot be attached to the proper manipulation of the ventilation. Abrupt changes of temperature should be avoided as much as possible. At the same time, plenty of fresh air day and night, is one of the most important essentials in Beauty growing. If the nights are too cold to admit of this without firing it is a poor system of economy to withhold heat, and this applies not only to the culture of Beauties but to all classes of roses under glass. The Beauty is a rapid grower and a gross feeder. Therefore large supplies of water are necessary to keep the food in an assimilable form. This liberal use of water entails persistent cultivation of the soil to keep it sweet and the surface free from cakeing. This should be continued until the roots approach the surface so closely as to make further cultivation injurious.

INSECTS AND SYRINGING

Although greenfly are not so troublesome during the summer months, a light fumigating once a week will prevent their gaining a foothold and thus make it easier to keep them in subjection during winter. Red-spider is very partial to Beauties, and a few days' neglect on the part of the grower to use the syringe is sufficient for this pest to found a colony. Advantage should be taken of every bright day to syringe the young stock, and during hot spells a second syringing during the afternoon will be of great benefit, helping to cool the house, recharge the air with moisture, and giving to the foliage that firm, rubbery texture so noticeable in well-handled stock. To be effective syringing must be accompanied by a sufficient force of water to dislodge the spider and break up the web under which the eggs are deposited, and be so directed that the under sides of the leaves receive the full force of the spray. In order to accomplish this without injury to the young sappy shoots tying should be strictly attended to.

THRIPS THE WORST PEST

Of all the insect pests that infest roses, thrips, perhaps, do the most damage, and by reason of their small size and wonderful activity are the most difficult to combat. Fumigating with tobacco—in fact tobacco in any form—has little or no effect on them. Hydrocyanic acid gas seems to be the only effective means of destroying this pest. But as there have been some losses in connection with this method of fumigating many growers hesitate to adopt it.

FORMULA FOR HYDROCYANIC

The following formula is perfectly safe and will not injure the plants: Water one pint, commercial sulphuric acid one pint, cyanide of potassium 2 1-2 ounces. This quantity is for every 1,500 cubic feet of atmosphere in the house. The cyanide should be what is known in the chemical trade as "ninety-eight per cent. pure," and can be bought of the local druggist, who should be requested to wrap it in packages of 2 1-2

ounces each in two thicknesses of brown paper, that is one for each jar of water and sulphuric acid.

To determine the amount of space contained in the house ascertain the number of superficial feet there are in the gable end of the house and multiply this by its length which will give the cubic amount. In making the gas use an earthen jar (never metal) large enough to contain all the liquid without slopping over. A gallon jar is a convenient size. Pour the water into the jar, add the acid slowly, and when all is ready start at one end of the house and passing each jar drop in the package of cyanide, and when the last one is dropped get out as quickly as possible, lock the door and allow it to remain thus over night. This precaution is necessary, and it cannot be kept too firmly in mind that hydrocyanic acid gas is very poisonous and might prove fatal to anyone entering the house during treatment.

J. E. Simpson

Stop the Bird Slaughter

The manner in which the equipoise of nature has been broken into through forest devastation, and indiscriminate slaughter in the bird and animal kingdom, the disturbing effects already apparent, together with the more serious conditions sure to follow, unless proper action is taken, was referred to by an editorial in a recent number of this paper. That it struck a note which vibrated among those who occupy an observant and progressive position in horticulture is evidenced by a communication which appeared in a following issue. In an article which came under the writer's notice, a statement taken from a bulletin sent out by the Forest Service was quoted, that this country was consuming between three and four times more wood each year than the combined forests of the United States produce in the meantime. The same paper spoke of an appalling array of figures showing the extent of the sacrifice of bird life for millinery purposes alone.

Mr. Wheeler in his communication calls attention to the extent to which Italian laborers in suburban and outlying districts draw upon bird life for a food supply. That the resources of our country, though vast, are not unlimited is a fact that must be faced in all its bearings, and it is apparent that the time has fully come when future prosperity will depend upon the wisdom of present action.

Legislation and organization are doubtless pertinent means through which desired results may be obtained but the people are not generally awake to the situation. HORTICULTURE, true to its mission as a foremost exponent of all matters bearing upon horticultural interests, has placed itself in the forefront of activity in a movement to bring out the different aspects of this question. The problem is a large one, the issue a vital one. An effort to arouse the trade and people generally to a proper consideration of this matter and to bring forth the possibilities of a proper adjustment of the same, is certainly worthy of hearty support.

Our Winged Friends

Editor HORTICULTURE:—In your issue of May 25 Mr. Wilfrid Wheeler has touched on a subject of vital importance to all lovers of animated nature, sentimentally or, as in this particular, practically. He has thus been aroused to his practical and sensible communication by your editorial in May 18th issue for which now two at least of your readers feel grateful. It especially should appeal to observant and thinking people subjected to the destructive inroads of the pestiferous insects which have abounded in sections of our State for many years. When we think of the magnanimous liberality with which our State has undertaken the suppression of those destructive insects, and the meagre final result, one cannot but sigh with Mr. Wheeler over the wanton destruction of the birds of the forest and field as carried on by irresponsible and thoughtless persons. Compare the cumbersome and crude methods of insect control as at present practised by man, with the swift-pinioned bird having a taste for insect life, and the contrast is apparent.

Two important provisions are essential to induce a larger number of various birds to stay with us all the year round. First, shelter; secondly, forage ground. To provide the first, is to enhance the beauty of the landscape, not to mention the moderating effects on bleak, windswept regions, and the conceded water-conserving influence, by clothing every available bare hill and knoll in the State with evergreen plantations, such as hemlock, spruce, firs and pine.

Forage ground. This can be provided by private estates as well as public means, by planting largely of fruit-bearing trees and shrubs which, in many cases, are also among the most beautiful flowering shrubs. Hawthorns, viburnums, roses, privets, are a few examples.

I was never before impressed to the same extent as I was this last erratic "old-fashioned" winter, with the necessity of looking to the welfare of our much-too-few songbirds. I had a delightful three weeks' visit on my section of the Boston park system in the severest and most dreary part of the winter from a flock of one hundred and fifty to two hundred Alaskan pine grossbeaks, strangers evidently to this latitude except possibly on rare occasions. This is a portly bird of beautiful outline and so tame as to indicate that the pot-hunter has not yet reached its accustomed haunts. They first paid attention to the haws on the thorns, then they took to the ash seed of which there was an abundance, but not a single seed escaped their keen eyes; then they took to the viburnum and privet seeds, etc. On occasions when newly fallen snow was heavy and no litter of any kind was in sight, the self-accommodating and voracious sparrow was also to be seen feeding on privet seeds. This to my mind points eloquently towards, at least, one or two directions in which we may profitably espouse the well-being of our feathered friends.

Geo. H. Higgins

W. D. Ingham

HORTICULTURE

VOL. V

JUNE 22, 1907

NO. 25

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; To Canada, \$1.50

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (12 times) 10 per cent.;

six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass. under the Act of Congress of March 3, 1879.

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To retard timber decay

The increasing scarcity and advancing prices of timber for railroad ties, telegraph poles and mining and other works gives an impetus not only to the industry of wood production but to the preservation by chemical process of the wood we now have. Experiments with coal tar creosote are being conducted by government experts and it is believed possible to so retard decay that the life of timber will be trebled in length. The greenhouse industry is a very insignificant item in the sum total of the interests which will profit by the perfecting of the wood-preserving art but, to those engaged in it, any process that will treble the life of a

greenhouse structure in any of its parts will be a most welcome boon.

To restore Bermuda's lily prestige

Professor S. W. Collett who has been conducting an investigation of the Bermuda lily disease is reported to have come to the conclusion that self-sterility due to a constitutional weakness probably caused by inbreeding is the cause of the trouble and that in cross-fertilizing with pollen from other types will be found the remedy. Seedlings resulting from a cross with giganteum are said to be growing well and are expected to produce something valuable. We hope these and other investigations now under way may prove profitable and hope to see the Bermuda lily bulb industry resume its old-time importance. Nothing will bring out the possibilities in any industry as competition does. We believe in it for railroads, trade papers and a good many other things, including the production of lily bulbs. Other sources of supply will "begin to sit up and take notice" when it becomes apparent that Bermuda, Washington, Texas or any other district is cutting into their trade with superior material.

Pointing the way for the commercial florist

The series of articles from the pen of Robert Cameron, the accomplished gardener at Harvard Botanic Garden on hardy bulbs and border plants, now being presented in HORTICULTURE, should be carefully perused by every florist, seedsman and bulb dealer. Mr. Cameron has a lively apprehension of the practical side of commercial horticulture, which is rare among those usually occupying similar positions and he gives from the store of knowledge which it has been his ambition to lay up, with a freedom and enthusiasm which cannot be too highly appreciated. More varieties are the demand of the times and the greatest measure of success and prestige will come to those florists who are progressive enough in spirit and zeal to follow up where men of Mr. Cameron's calibre and foresight point the way. If every bulb dealer could impress upon his customers the facts presented in our last week's issue regarding the use of tulips and daffodils in the border the sales of tulips and daffodils would be increased many fold.

Get ready for Philadelphia

Echoes of bustling activity in and about Horticultural Hall, Philadelphia reach our ears. Busy officials and industrious committees are pushing along the work of preparation with an ardor which plainly indicates that the prediction of a record-breaking convention in August is about to be verified so far as Philadelphia can contribute to bring it about. There remains now only about eight weeks until the opening day and those who plan to participate in this notable event should get busy at once. "First come, first served" applies to hotel accommodations, to exhibition space and to other matters of business or comfort. We hardly need to repeat that no one engaged in any horticultural pursuit or allied profession can afford, as a business proposition, to absent himself from this great gathering of his brother florists and gardeners. In all the proceedings, the exhibition and the social features of the convention the visitor will find himself in contact with the best achievements and the brightest minds in the horticulture of today. He who fails to realize this fact and to act upon it does himself an injury and places his business and future prosperity at a distinct disadvantage as compared with his competitors who are wiser in their ways.

AFTER ADJOURNMENT.

It is quite nice to learn through the columns of our contemporaries of the many happy florists who, one after the other, are wont to display in public their exuberant joy over certain interesting events in their families. But we should really like to see a greater variety in the methods of celebrating these "arrivals." "Passing the cigars" is getting threadbare and, besides, discriminates against the non-smoker. "Wearing a broad smile" is fully as acceptable to those who do not smoke and has the merit of being very inexpensive, but has likewise become wearisome. Can't some sympathetic soul put up a prize for a new way of telling the old, old story?

A very interesting discussion has been going on in one of the English journals concerning the status of the "private" gardener, the qualifications that will serve him best in his relations with his employer, and as to how far he can be held responsible for the breaches of good taste sometimes displayed in the lay out and planting of grounds under his care. To many of our old-world fellow-craftsmen no doubt the word "employer" is synonymous with "master," consequently as one writer puts it "if he is asked (in effect) for the moon, he must be prepared with a substitute," and the idea of giving advice based upon his own knowledge and experience would never be entertained. In individual cases and, in this country, more frequently probably, the reverse may be true yet it is a fact that the gardener in the majority of cases is looked upon as, and tacitly submits to, ranking in the "servant" class. All honor to those who have upheld the dignity of their profession and have been able to exact from their employer a respect and deference to their better knowledge of their art. We hope to see more of them for it is our belief that in many cases the gardener's judgment is superior to that of his employer in the planting and horticultural development of an estate. If this fact was more generally recognized many of the offences against good sense and artistic taste which we see, here and there, would soon disappear.

THE DISTINCTION BETWEEN ROSE CUTTINGS AND PLANTS.

Over a difference of \$1 the United States Court of Appeals will be called upon to review a case arising from a bundle of rose cuttings. It is claimed the American Express Company brought from Brampton, Ont., a shipment of rose cuttings and delivered them at Oneonta, N. Y. The Collector of Customs here charged a duty of 2 1/2 cents each. This duty was objected to on the ground that rose cuttings should not be taxed.

Later the general appraiser reversed the collector's decision and put them in a class calling for ad valorem duty of 25 per cent. Then followed an appeal to Judge Hazel in the United States Court. Judge Hazel affirmed the decision of the general appraiser. This raised the duty on the rose cuttings from \$2.13 to \$3.13.

It is not the amount of money the United States Attorney is after so much as the principle and rulings involved.—Buffalo Examiner.

NEW PLANTS.

Tropaeolum hybridum Darmstadt introduced by a European firm is described as a double flower of intense red-orange shade, especially adapted for window-box use on account of its vigor and floriferousness.

Three dahlias designated as "Decorative Show," have been introduced by a German firm as novelties of 1907. They are Grenadier light orange-pink, Matador carmine, Die Unschuld creamy white.

A new violet, called Hesse's Improved Kaiser Friedrich, is said to excel all others in size of bloom and to have a much longer flowering season than Princess of Wales.

Frau Cecile Walter, a new Polyantha rose by P. Lambert, is well spoken of by foreign horticultural journals. Its color, light yellow, with reddish yellow stamens, is one of its recommendations.

THE BEST LILACS.

Single varieties with fragrant flowers—Mathieu de Dombasle, lilac color inclined to blue, very large inflorescences; Charles X., dark red; La Tour d'Auvergne, dark lilac; Mme. Kreuter, red, very fine; Toussaint Louverture, very dark red; Marie Legraye, white, fine truss; Philemon, dark, first-rate variety; Souv. de Louis Spath, rich red, very fine trusses; Mdle. Fernande Viger, white, Camille de Rohan, dark red; rubra de Marly, pale lilac; Dephine, very dark bluish purple; Iovaniensis, pale flesh. Double-flowered fragrant varieties—Senateur Voland, lilac; Alphonse Lavallee, white; Mme. Abel Chatenay, white; Mme. Jules Finger, lilac; Marie Lemoine, white; Francois Morel, lilac; Monument Carnot, lilac. Good varieties in which the fragrance is not so well defined are—Alba grandiflora, single white; Tournefort, lilac; Duc d'Orleans, bluish blue, large truss; Ville de Troyes, rich red; Compacta, single white.—Journal of Horticulture.

SHRUB AND TREE CHAT.

Clematis Sanderi, an evergreen with the habit of *C. indivisa*, is in bloom at Sander's, St. Albans, England. The plant was brought from Australia three years ago. The flowers, which are white, with salmon red stamens and fragrant, are produced freely in clusters of a dozen or more.

Observations of the effect of factory smoke on conifers conducted by the Royal Horticultural Director in Berlin show that the trees that have best withstood the unfavorable conditions are *Abies numidica*, *A. balsamæ* and *Araucaria imbricata*.

CORRECTIONS.

A few errors, typographical and otherwise, crept into last week's issue of HORTICULTURE. In the article by Mr. Cameron, on page 778, "Crimson snowdrop" should be Crimean snowdrop and, on the following page, *Viola cornuta* "Administration" should be Admiration. Two articles on "bird slaughter" topics intended to appear last week and referred to on the editorial page, were inadvertently omitted. Our readers will find them both in this issue.

WHOLESOME CHESTNUTS.

Now that the rush of spring sales and planting is about over, give attention as much as possible to the growth and thorough development of all kinds of stock for fall, winter and spring use. Cultivate the soil wherein violets are planted; do the same with carnation ground. Do not wait for the appearance of weeds which do not injure the plants half as much as a hard, crusty surface on the soil. Keep the hoes and cultivators going continually. Remember that over-production is not as much the cause of poor returns as poorly grown stock.

Antirrhinums are common when grown in a common sort of way, but when they are produced with spikes a yard long the commonness is not much in evidence. Take cuttings now of good kinds and root them, keeping them growing right along; or if you want to risk growing the plants that are in flats now from seed sown in the spring put up as many as are required. It will also do to lift plants that have been planted out in the open some time, but lift them early to insure success.

Well grown primulas and cinerarias bring a fairly remunerative price to the grower, but small, poorly-grown plants are simply examples of wasted time and room.

Chrysanthemums will now require a great deal of time and constant care; the planting of those varieties that are intended for the main crop should be prosecuted with as little delay as possible. It is a well-known fact that once chrysanthemums get pot-bound they then and there suffer irretrievably. They require to be kept growing with fresh material for the roots to enter into. Pot plants of chrysanthemums well grown in every respect are usually fairly profitable.

Begonia Lorraine, poinsettias and cyclamens are three of the best selling plants. Look well after them all regularly and you will find it much easier than the spasmodic treatment.

Procrastination is an evil more in evidence and more disastrous in its consequences in horticulture than in most other callings.

Hybrid Perpetual roses growing outdoors will be later than usual in coming in to bloom this year. Roses respond very generously to good treatment when they are rapidly making growth, and from that stage on to the full swelling of the buds. Manure water helps them wonderfully. Give them a liberal quantity and immediately afterward allow clean water to run on the soil at the roots. Water roses in the late afternoon or early morning.

Many a gardener's success with fruit has been the means of his ultimate pronounced permanent good standing as a craftsman. Grapes are always or nearly always favorite objects of comment, appreciative or the reverse. Large bunches are ornamental, but it is the size of the berry, its color and the flavor that make the greatest impression on the consumer.

NEWS OF THE CLUBS AND SOCIETIES

MASSACHUSETTS HORTICULTURAL SOCIETY.

The exhibition of June 15 and 16 at Horticultural Hall, Boston, was a most interesting and radiant array of rhododendrons, irises, aquilegias, tree peonies, pyrethrums and herbaceous border flowers which almost completely filled the large exhibition hall. Rhododendrons were shown in large numbers by Walter Hunnewell, Mrs.

J. L. Gardner and Mrs. R. A. Leason. The trusses seemed less luxuriant than usual, the result of the rigorous winter and spring undoubtedly. There were several long tables of irises and they made a beautiful scene. The largest exhibitors were Wm. Whitman, R. & J. Farquhar & Co., Blue Hill Nurseries, Mrs. Gardner and T. C. Thurlow. Iris Germanica Purple King in the Farquhar collection was especially admired. Farquhar's table of Columbines comprised an almost limitless variety of form and tint and the interest being taken in this flower as a candidate for the honor of "National Flower" was evidenced by the large number of inquisitive visitors who crowded about the display.

Again the superb seedling tree peonies from Charles Sander, gardener for Prof. C. S. Sargent, attracted the admiration of every one; they were simply glorious. Mrs. D. S. Greenough, Jr., also showed a group, among the number being several flowers of a dazzling white and enormous size; such superb blooms have never been shown here before. James McKissock was another exhibitor in this class. The general collections of hardy herbaceous flowers contributed by Blue Hill Nurseries, R. & J. Farquhar & Co., and F. J. Rea made a gorgeous display. The late-flowering tulips in the Farquhar collection were very effective; Mr. Rea's collection, as usual contained many new and rare varieties. Mrs. Gardner contributed a handsome table of orchids and stove plants. Seedling pyrethrums from Blue Hill Nurseries, seedling Cereus Eyresii in bloom, from Harvard Botanic Garden, Bechtel's double-flowering Crab, from the Boston Park Department and a promiscuous display from Mrs. E. M. Gill should also be mentioned as attractive features of the exhibition.

LENOX HORTICULTURAL SOCIETY

The regular meeting of the above society was held June 15. The effect of lowering the initiation fee has been to induce seven young men to become members. Owing to the late spring it was unanimously voted to abandon the June exhibition. At our previous meeting the following questions had been asked and were well discussed: How do plants take up food—in solid or liquid form? What is capillary action, especially in relation to soils? Is nitrate of soda a plant food or merely a stimulant? What is its special action on plant growth? Is lime of any benefit to the soil at all, or is lime of any benefit to the soil in any locality? G. H. I.

ST. LOUIS FLORIST CLUB.

Twenty-two in number attended a harmonious and very interesting meeting on last Thursday afternoon. President Irish was on hand early and opened the meeting at 2 o'clock with all the officers in attendance. The president called upon the trustees for their report. Chairman W. C. Smith responded, stating that they had all arrangements completed for June 29 in Hibernian Hall, and that every member would receive an invitation. Also that the annual outing would be held at Romona Park on Thursday, July 25th. William C. Young, State vice-president of the S. R. F. reported that he had not yet completed arrangements for the trip to Philadelphia, the railroad rate being at the present time \$34.55 for a 60 day trip which included a visit to the Jamestown Exposition. He urged the members to send in their names as soon as possible, and hoped that by next meeting he would be able to report a much lower rate.

A discussion of fumigation and fourteen other topics taken from the question box ensued, John Steidle, J. F. Ammann, W. C. Young, H. C. Irish, G. Fulgraf and F. Fillmore taking part and making things very interesting. President Irish and Secretary Beneke hope for a large attendance at the July meeting as the nomination of officers will take place, also other important matters pertaining to the S. A. F. meeting.

ST. LOUIS HORTICULTURAL SOCIETY.

The executive board of this society is holding weekly meets regarding their fall flower show. The members have subscribed nearly all of the \$1000 subscription to the new Coliseum in which they expect to hold their show, but it is hardly possible that the big enterprise can be ready before the first of the year. Should the building be ready and the show get the opening date it should be a great success.

ENGELMANN BOTANICAL CLUB.

The Engelmann Botanical Club of St. Louis held their meeting the past week in the Central High School with a good attendance and concluded not to hold any meetings during the months of July, August and September. The club intended to hold a spring flower show, but owing to the backward season, it was thought best to wait until next spring. This is the first spring that the club has failed to hold a spring show.

PASADENA GARDENERS' ASSOCIATION.

The regular meeting of the association was held on June 7. After the routine of business the members were addressed by C. A. Day, Horticultural Inspector, on Entomology. He spoke of the evils of neglect in regard to scale and all garden and greenhouse pests, and of the carefulness required in shipping clean plants. This was one of the most enthusiastic meetings ever held. This association is looked upon as a leading spirit in the line of horticulture. A vote of thanks was tendered to Mr. Day at the close.

MORRIS CO. (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

The facts that our society holds no monthly meetings in July and August, and that Robert Tyson was to read an essay on "Melons under Glass," was responsible for the very large attendance at the June meeting. Our monthly exhibit included 12 varieties of German iris from Florham Farms, who also sent a fine basket of lettuce Little Gem and samples of indoor-grown melons Royal Jubilee and Sutton's Ringleader—enough to give us all a good taste which was thoroughly enjoyed. Robert Tyson, the grower, brought them along to illustrate his essay. John Heeremans had 1 vases of new sweet peas Alfred Watkin, Nora Unwin, Frank Dolby and Fairy, and a fine dish of new tomato Dwarf Stone. A. Herrington, secured certificate of merit for his collection of iris and his melons. John Heeremans got a certificate of merit for his sweet peas and a cultural certificate for his tomato. President Vince is absent on his European trip.

Our fall show will be held in Madison, Oct. 1st, and Nov. 1st next. Robert D. Foote of Morristown offers a first prize of \$50 for 25 chrysanthemum blooms in 25 varieties, short stems. There is no string on this prize, and we hope to have a strong competition, from outside as well as from members of the club. Otto H. Kahn offers a prize of a silver cup for best 6 white and best 6 pink chrysanthemums, confined to members of the society. Something like \$500 are offered in cash prizes. Schedule is ready for the printer.

James Fraser, superintendent to O. H. Kahn had staged at the June meeting his set of new fancy coleus Lucania, Daisy, Mohawk, Red Boy, Wonder and Combination. He secured a certificate of merit for the set and so well are they thought of that his friends have induced him to disseminate them in 1908 through C. H. Totty.

E. REAGAN.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

About 125 members were present at the meeting on Tuesday night, June 18, to listen to the able address on "The Chrysanthemum," which will be found on another page of this paper, by that eminent chrysanthemum expert, Chas. H. Totty. The discussion following the reading of the paper was lively and brought out some very interesting and practical information. There were a few interesting things on exhibition, including two pans of dwarf yellow chrysanthemums in flower from T. D. Hatfield, Iris Germanica Her Majesty from F. J. Rea, pyrethrums from James Wheeler, and oriental poppies from Mt. Auburn Cemetery. It was announced that the annual picnic would take place on July 25 at Dorchester Park. The proposition that the club contribute some feature for the trades parade during Old Home Week in Boston was discussed at some length, but not finally settled. Eight new names were submitted and elected for membership.

AMERICAN ASSOCIATION OF NURSERYMEN.

The nurserymen's convention held at the Hotel Cadillac last week was very inspiring from the fact that all of the four hundred and odd attendants were there strictly for business. Many new points were brought out during the discussion of a number of interesting well written papers.

A very notable feature was the suggestion of Mr. Albertson attached to his report on freight matters and shipping, setting forth the advisability of the smaller shippers combining their shipments with those of larger shippers, thereby taking part of the benefit accruing from rates as they are on car-load lots or more. Action on these lines should be an especial inducement to the growth of the society, not only in numbers, but in influence because of its direct usefulness to its individual members. There was a lengthy discussion on the result of interrogations and petitions for better railroad rates, etc. The desire to secure a cheap rate seems to have outweighed the most important necessity of getting speedy delivery. It might have worked a much greater advantage to have procured assurances for speedy delivery first and then go for cheaper rating afterwards.

Although the weather was anything but good Park Commissioner Breitmeyer entertained the members of the convention on Belle Isle, Wednesday afternoon and evening.

The next convention will be held in Milwaukee. At a meeting held on Wednesday afternoon the vice-presidents of the association had selected Atlantic City for the 1908 season, and so recommended to the convention. When the matter was put to a vote, however, the Wisconsin city won over the Atlantic coast resort by a large majority. The western delegates made a strenuous objection to Atlantic City on the ground that it is not so situated as to be accessible to nurserymen from all parts of the country.

The following officers were chosen for the ensuing year: President, J. W. Hill, Des Moines, Ia.; vice-president, C. M. Hobbs, Bridgeport, Ind.; secretary, George C. Seager, Rochester, N. Y.; treasurer, Charles L. Yates, Rochester, N. Y.; executive committee, J. H. Dayton, Painesville, O.; E. M. Sherman, Charles City, Ia.; H. B. Chase, Huntsville, Ala.

Interesting papers and spirited discussions on various topics made up Thursday afternoon's program. The extremely inclement weather somewhat interfered with the social side of the meeting, but did not serve in any way to dampen the ardor of those who took part in the debates nor of the "boomers" for the several cities that were endeavoring to land the next convention.

COLUMBUS FLORISTS' CLUB.

The annual Rose and Strawberry show took place in the Brent building headquarters, June 11th. The display of both roses and strawberries was the best ever made by the club. Space forbids a detailed account of all the roses exhibited, but suffice it to say that all the popular indoor varieties

were well represented; as regards hardy stock there was none exhibited, the season being so backward. Messrs. Jacob Reichert, Gustave Ackerman, and Albert Hills, awarded the rose prizes as follows: First to James McKellar for Uncle John; second to L. L. Siebert for Golden Gate, and third to Sherman F. Stephens for Bride. Besides the prize awards, the general displays of Graff Brothers, Clover Hill Nurseries, and Fifth Avenue Floral Company, were greatly admired. The strawberries as a whole were very fine; there were more than twenty-five competitors for the awards, which resulted as follows: First prize to William F. Metzmaier, second to John Brust, and third to George Bauman. In fact, so excellent were all the strawberries that the committee, consisting of Messrs. William F. Metzmaier, A. Wedemeyer, and John Williams had a hard time making the awards. After a short business meeting, the evening was given up to social intercourse. A fine collation was served, so arranged that everyone had a chance to sample the prize strawberries. Then music and games filled in the evening until a very late hour. W. A. Sperling, representing Stunpp & Walter Co. was a guest, and during the evening kindly acted as judge of the various games.

THE ANNANDALE ROSE SHOW.

The fifteenth exhibition of the Annandale Rose Show was given at Annandale, N. Y., June 12th and 13th. Considering the very late season and no exhibits in the rose classes the show was a decided success. The exhibits of herbaceous flowers, while not as great in variety as they would be later in the season, were very fine. The first prize for best group of plants was won by Geraldyn Redmond, Thomas Ranger, gardener; second prize by T. T. Astor, gardener, Horace A. Deal; while the group exhibited by Hon. L. P. Morton, Thomas Talbot, gardener, was superior to any in the point of variety and tasteful arrangement.

In class for best twelve ferns Geraldyn Redmond was first and T. T. Astor second. In specimen fern J. J. Astor was first and Hon. L. P. Morton second. In the class for herbaceous flowers Mr. Archibald Rogers, Thos. P. Connor, gardener, was first and Hon. L. P. Morton second, while several exhibits not for competition were equal to the prize winners, notably those of Miss Cruger, Cruger's Island, and Mrs. Rachael Aldrich, Barrytown.

An object of much comment and interest was a group of Azalea Mollis and ferns with a background of evergreens, exhibited by the Shatemuc Nurseries, Barrytown. J. T. Lynch, Poughkeepsie, exhibited a vase of Beauty roses; J. J. Astor a vase of Beauty and two of Richmond; these and two vases of Killarney cover the rose display, no out-door roses being in bloom. In the vegetable class Mr. Archibald Rogers was first with a very attractive collection. Mr. Douglas Merritt also exhibited a very nice collection not for competition.

Taking the exhibition as a whole, it was a credit to the exhibitors and to the society, in spite of the unfavorable season. The judges were R. W. Allen,

Hudson, N. Y.; F. L. Atkins, Rutherford, N. J.; James Blair, Statensburg, N. Y.

JOHN W. BAIN, Secretary,
Red Hook, N. Y.

CLUB AND SOCIETY NOTES.

The Newport Horticultural Society's rose show has been postponed until July 9 and 10.

The Lake Forest Horticultural Society, Chicago, will hold its first annual exhibition on July 13.

The annual picnic of the Indiana State Florists' Association will be held on invitation at the country place of R. F. and J. E. Harritt, Indianapolis, on Wednesday, June 26, Stop 4, Rushville Traction Line.

MARYLAND STRAWBERRIES AT JAMESTOWN EXHIBITION.

Maryland strawberries are the centre of attraction in the States Exhibit Palace at the Jamestown Exposition. Maryland, which leads the Union in growing strawberries, is demonstrating to the thousands of people now visiting the Exposition her ability in this direction. The varieties Taft, Longworth and Outlander, seedlings originated by Arthur T. Goldsborough of Wesley Heights, are the largest and finest berries in the exhibit; all of them vary from five to eight inches in circumference and weigh from two to four ounces. The Gandy berries exhibited by J. Aikenhead of Easton, are also exceptionally fine, a few being as large as the preceding varieties. Other Marylanders who are aiding in the strawberry exhibit are D. H. Hargett of Frederick, F. E. Matthews of Pocomoke and A. T. Whittington of Marion Station. On the tables are also several large vases of peonies from George Morrison of Baltimore. Prof. T. B. Symons, in charge of the Maryland exhibit, is kept busy giving information regarding the great horticultural possibilities of the State.

BLOCKED BY THE EXPRESS COMPANIES.

The main objection to a parcels post, although usually carefully concealed by the politicians, is the fact that it would seriously impair the profits of the express companies, if it did not drive them out of business. For 30 years Congress has refused to consider seriously the re-establishment of the parcels post, and it is not likely that Postmaster-General Meyer will make more headway than his well-disposed predecessors made. In the mean time the express companies will exist and their promoters will continue to make immense fortunes by charging big prices for the transportation of packages which the government should carry, as it does in other countries, as mail at small charges.—*St. Joseph News Press.*

PERSONAL.

Visitors in Boston this week: C. H. Totty, Madison, N. J.; Jos. S. Fenrich and Harry J. Hoffmeir, New York; A. M. Rennie, Providence, R. I.; E. H. Chamberlain, New Bedford, Mass.; E. J. Harmon, Portland, Me.

The Chrysanthemum—Its Past, Present and Future

A paper read before the Gardeners' and Florists' Club of Boston, by Charles H. Totty.

The Chrysanthemum in its various forms as grown today is essentially modern in its varieties, and it is a far cry from the first Japanese introductions of R. Fortune in 1862 to the large flowered Japanese of today. No flower has proved so responsive to the efforts of the hybridist and the present day types of Europe and America are far ahead of the kinds grown at this time in Japan, so far as my knowledge of Japanese varieties goes. When we stop to reflect on the progress made in a period of some fifty years with this flower, one hesitates to hazard a guess as to what the future has in store. The past history of the Chrysanthemum is interesting. A Chrysanthemum show was held in Birmingham, England, as far back as 1836, but no record of it is left saving the mere detail of time and place. The organization that was to be the real factor in developing the Chrysanthemum was organized in Stoke Newington, England, in 1846 at an old-fashioned hostelry where a company of congenial spirits used to congregate evenings and over their pipes and beer discuss their favorite flower.

That little society prospered in its chrysalis state and eventually evolved into the National Chrysanthemum Society and this society by its system of historical records, classifications and nomenclature put Chrysanthemum where it is today.

The first seedling raised in cultivation was flowered in France about 1827 and I have no doubt the raiser was just as proud of his achievement as we would be today to produce a Beatrice May or William Duckham.

The pompon section was produced from a small semi-double variety sent home by Robert Fortune from China in 1842. We are indebted to the French raisers for this type who christened it pompon from the real or fancied resemblance to the tuft or pompon on the French soldiers' hats of that period. The Fortune introductions of 1862 gave the greatest impetus to the cultivation of the Chrysanthemum and they were the ancestors of our present large flowering kinds.

Some of the Pioneers.

Glancing hurriedly through the American history of the Chrysanthemum we find that the first seedlings were exhibited before the Massachusetts Horticultural Society in 1879 by Dr. H. P. Walcott, so that Boston in this as in many others matters historical may rightly claim first honors. Peter Henderson previous to this had imported from Japan in 1863 some fine varieties one of which at least, Grandiflorum, was grown until very recently. The Chrysanthemum Society of America was not organized until 1889, but shows had been held for some time previous to that in the larger eastern cities. Possibly the greatest enthusiast this country ever had is the veteran John Thorpe. I had a short talk with him in Chicago last fall and I know he is a mine of information on the early struggles to popularize the 'Mum in this country. Another gentleman who while his name does not figure so much in print did a great work in the

early days, is Wm. Barr of Orange; he too is brimful of early history and furthermore is just as keen today in testing new kinds as he ever was. What wonderful power of fascination does the 'Mum possess that it can hold a man's interest for a life time compelling him willy, nilly, to remain its slave and worshipper?

In the early 80's several Pennsylvania growers came to the front. W. K. Harris and H. Waterer left their imprint on the 'Mum by raising some fine varieties. New Jersey was represented by Mr. T. H. Spaulding and the late lamented firm of Pitcher and Manda. It is impossible in a paper of this description to enumerate all of the men who did yeoman service in the past, but at least two others, Fewkes and Hallock, are deserving of special mention. Getting down to the present time we find that the Australian varieties in the past few years have swept our exhibition tables clear of the older varieties giving us flowers of such splendid size and colors combined with ideal habit that there would almost seem to be an infusion of new blood into the race. The English and French seedlings are in too many cases disappointing to us, comparatively few standing the test of our climate, but the failures in the Australian kinds are few. The reason for this is because the Australian climate at flowering time is similar to ours, often running warm and bright, and if a seedling shows a large, full, perfect flower in this condition it will do the same with us. An English variety may be splendid in its native home and yet be a failure here, showing an enormous eye and only some five or six rows of petals. Some of their very finest kinds act in this way here, Lady Conyers, Elsie Fulton and Mrs. F. W. Valis being good examples. The Australian kinds on the other hand show up much better than they do in Europe, many of them, the sunlight here in the early fall serving to bring out the size and breadth of the petal to greater advantage. I am often asked how it is that the Australian types are such strong growers, splendid in both stem and foliage. Perhaps the chief reason is because in Australia they practice an outdoor system of culture entirely in the section from where we have received the finest varieties.

Future Development.

We should never lose sight of the fact that the Chrysanthemum is almost a hardy plant and indoor culture is an unnatural condition which in time tends to degenerate the parent stock. The future will possibly see a race of American seedlings equal or superior to what we are now getting from Australia, but they will be raised outside in the great Southwest somewhere, where the hand of man has merely to guide nature in an intelligent systematic crossing, not here in the east where with glass houses and artificial heat man must not only guide nature but also finish her product for her. Another reason why the Australian kinds are all good growers, lies in the fact that a rigid selection is kept up all the time from the first

seed bed to the flowering stage. Any kind that shows an exceptionally tall, or a weak spindly habit is destroyed before the plant reaches the flowering stage so that the temptation to keep it, should it prove to be an exceptionally fine flower, is removed. This I am informed is the policy of Mr. Pockett of the Wells-Pockett firm, and I say today that this firm if they do not send us another variety, have left a mark on American Chrysanthemum culture that will endure for many years to come. The most popular type of flower at the present day is the Japanese incurved. This combines the largest size with the incurving petals so much sought after by the commercial grower on account of its shipping qualities.

The true Chinese type with its incurving petal is apparently too small for present day use, and is entirely crowded out of the exhibition table saving in classes specially reserved for it, and to a considerable extent, it is also getting crowded out of the commercial grower's list. This perhaps is in some ways to be regretted, yet it is only one of the cycles of change that have served to keep alive the interest in the "Mum." Every few years a new type or color appears and revivifies an interest that perhaps was waning and needed just that stimulus.

The Banner Year for Exhibitions.

Some good and worthy people every once in a while tell you that the Chrysanthemum is getting played out, that it don't sell as well as it used to in the market, people are tired of it and so forth. Let us look at the facts and see if this is so. What do we find from an exhibition standpoint? We find every year an increased number of cities holding "Mum" shows. We note 20 or more local societies each in a flourishing condition and holding an annual fall show, when ten years ago not one was in existence. No signs of lack of interest there. If you were in my position as a disseminator of new varieties and knew as I know men who buy the plants out of their own pockets, in cases where the employer is not sufficiently interested to do so, in order not to be behind at show time, you would never talk about lack of interest. I have seen several schedules for the coming fall, and in every case the prizes are larger and far more numerous, and I will go on record as saying now that 1907 will be the banner year to date from the viewpoint of exhibitions. What about it commercially? That can only be conjecture till we can get an idea of the quantities planted in the different sections, but last year was the best year for prices that I have known since I have studied the flower market. Climatic conditions I will concede helped somewhat to bring about this condition, but even so, people look for Chrysanthemums now more than they once did in the early fall, and I see no reason to feel pessimistic as to the future commercially of the flower.

The Chrysanthemum a Stimulus to Fall Trade.

The Chrysanthemum accomplishes every year a great work in bringing the general grower and his wares be-

fore the public at the fall shows. How many towns ever attempt even to hold a show only in the fall, when the "Mums" are at their height? Spring and summer exhibitions can be counted on the fingers of one hand, almost in the entire country, but when the fall comes, shows spring up from one end of the country to the other, and though the Chrysanthemum is the principal attraction it affords the Rose men, the Carnation men and the new plant men a chance to exhibit their stock to a large section of the flower buying public that could otherwise only be reached through the medium of the retail store. The average retailer is more interested in keeping his trade down to the staples in the trade than he is in pushing a lot of new things that he will have to sink his money into and run his chances on selling them afterwards to a fickle minded public. As an aid to instructing the public and giving an impetus to the fall trade just at that time opening up, the Chrysanthemum performs a service to the florist that cannot be measured in actual dollars and cents. One of the most encouraging features to me in the Chrysanthemum business is the increasing number of exhibitors. True, some of the older ones drop out from one cause or other, but this is only to be expected, and the number of new men coming up is very greatly in excess of older men going out.

Usefulness of the Chrysanthemum Society.

The various local societies have helped to bring about this condition, and I pray it may continue, for when the local interest dies and the local show is discontinued, then do we see the horticultural interest in that particular section, so far as the Chrysanthemum is concerned, fading away. While I give place to none in my interest and loyalty to my local society, I believe it is the duty of every Chrysanthemum lover to affiliate himself with the National Chrysanthemum Society also. In union there is strength, and I would like to see the Chrysanthemum Society with thousands of members where it now has hundreds only, for gentlemen members of this society should not forget that the present head of the Chrysanthemum Society is a Massachusetts man, Mr. Loveless of Lenox, and as a matter of State pride I know you will help him all you can. To a grower interested in Chrysanthemums the lists of varieties issued by the society are worth much more than the annual dues amount to, not to mention the good work it does in recognizing new and meritorious varieties, winnowing the wheat from the chaff and occasionally in detecting old varieties that once in a while, whether by accident or design, are re-named and offered to the trade as new varieties. And now what of the future? I am neither a prophet nor the son of a prophet, and when dealing in futures it is the unexpected that always happens. So far as one can see along the pathway at this time the future is bright—very bright for the Chrysanthemum. Changes will come unquestionably. In fact, they are already looming up. I see it in a reaction in some sections from the large blooms solely. The past year has witnessed to me a remarkable turn in fa-

The rose which we here illustrate is one of M. H. Walsh's finest productions. It is a Wichuraiana hybrid of vigorous growth, hardy and with handsome glossy foliage. The flower is unique; color, base of petals, creamy white, tips of petals carmine, the centre filled with golden stamens. The petals reflex in a remarkable manner giving the flower a star-shaped form which no other rose presents. The petals are very persistent, lasting fully four weeks from the time of opening until they begin to drop. The plant shown in the illustration is one of the group exhibited at Washington last March and the flowers had begun to open three weeks before it was shipped, yet it arrived back in Woods' Hole without losing a petal, Mr. Walsh tells us. That such a rose, with its

RAMBLER ROSE PARADISE.



freedom of blooming is destined to hold high rank as a florists' Easter plant seems inevitable.

vor of the single flowered types. The singles cannot be called new, for I recall we made an unsuccessful effort to have the market take them up ten years ago and the market laughed at them. True, varieties have improved greatly since then, but the market at that time was not in a receptive mood. It was merely a big flower, the bigger the better, with a stem like wire and foliage hugging the flower. Today it would seem that the artistic taste is more developed. We see it in the increasing popularity of single flowers not only in Chrysanthemum, but also in roses, dahlias and other flowers. Light, graceful, natural effects can be produced, impossible of duplication with the heavy double flowers that have been the florists' ideal for so long. The single varieties now seem to be coming into their own after years of neglect, and the next year or two will see them popular. I notice that several new singles were awarded certificates in London last fall. Such a thing would have been heresy not so long ago, and I regard it as an indication of the trend of the times. The pompons or hardy types too will be planted much more largely in the next few years. With the spread of the civic improvement ideas of a city beautiful instead of an aggregation of bricks and stones, demand will come for these humble but welcome flowers, blooming as they do when everything else is gone, and pointing an object-lesson of hopefulness long after every other flower has succumbed to the rigors of early winter.

Will the Big Flowers Stay?

Will the big flowers stay? I say yes. For large, massive decorations they are unsurpassed; to make a showing in an exhibition they are in-

dispensable, and as evidences of cultural skill they tell their own story. That new types will crop up and have a share of the popularity is certain. The human mind from earliest history is perpetually craving for something different, and in this respect modern civilization differs not one whit from the ancient Greeks and Romans. The large flower in its proper place has a certain nobility about it that is not to my mind approached in any other flower, but its place is not stuck in a low bowl to form part of a dinner table decoration. That part of decorative art can be more artistically done with singles or pompons or other smaller flowered varieties.

That the hybridist will continue to breed to larger and larger types is certain, but size and coarseness do not necessarily have to go together. We have seen the coarseness of Timothy Eaton, for instance, eliminated, and a flower equally large or larger produced in Beatrice May or Mrs. D. V. West without a trace of coarseness in their makeup, and it is on these lines that the hybridist will work.

Some people in decrying size go to the other extreme and condemn a flower for its size alone. I say this is wrong. The forest tree when a magnificent specimen never excites anything but admiration, and if nature unlocks her storehouse of knowledge and permits us to raise a Chrysanthemum two feet across, if it be perfectly proportioned I say it would be a marvellous revelation.

Whatever the future has in store we may confidently say that the Chrysanthemum will go on increasing in popularity and usefulness from year to year and adding its quota to the sum total of the world's economy and human progress.

SEED TRADE.

We have passed the safety line for most crops, and only uninterrupted favorable weather from now on can assure average results from this year's plantings, and this is especially true of most cultivated crops. When corn and potatoes are barely out of the ground by the middle of June, there is no question that we have lost our margin of safety. To assume that weather will be uninterruptedly favorable from now until harvest, is to assume the improbable, and to fly in the face of experience. We are certainly booked for a season of short crops, and the prudent have already accepted this fact. The only question now is, as to the extent of the shortage. Estimates are being made, but estimates are not facts, though they may be interesting.

To begin with farm crops, Snow, one of the most reliable crop experts in this country, estimates the total crop of winter and spring wheat of 1907 at 550,000,000 bushels, against 776,000,000 bushels in 1906. The indicated oat crop is 850,000,000 bushels, against 930,000,000 bushels last year. No figures are given on corn, but he says the crop will be hundreds of millions less than 1906.

While seedsmen are only indirectly interested in these figures, they are given to show how general are the unfavorable crop conditions, and how heavy will be the shortage in staple crops. It is not conceivable that with general farm crops showing so large a shrinkage from last year seed crops can be up to average, and in fact they will not be. So much is settled now.

It is interesting to note that a calendar issued in 1856 predicted that the year 1907 would be one of short crops, and that the weather would be cold and unseasonable. If this prophet were now living, he could hang out his shingle and do a rushing business in his line.

At various times there have been rumors that F. B. Mills, of Rose Hill, N. Y., was planning to move his business to some point where he could have better transportation facilities. Mr. Mills does a large business in seeds and plants, and very successfully, but "the wine of success is often intoxicating," and Mr. Mills has, at sundry times, been under the influence. He has tried his hand at various schemes outside of his seed and plant business, such as railroad building, the raising of fancy fowls, the making of incubators, the growing of ginseng, and finally, took a plunge into the general merchandise business along the lines followed by the Sears-Roebuck Company, but none of these ventures has been a pronounced success, and one or two have been rather costly failures. It is true he is still growing ginseng but just how successful from a financial point of view cannot be learned. Considering that Mr. Mills never spent an hour's apprenticeship at any seed house before embarking in business for himself, his great success in this business is all the more creditable to him, as he is the son of a poor farmer, and had scarcely been out of his father's door-yard before his first catalogue was

issued. Returning to the question of his removal, it can be said that while he contemplates establishing a branch in the West, his headquarters for the present at least, will remain at Rose Hill, as his investment here must have cost at least \$100,000, and is altogether too large and expensive an outfit to be abandoned without most urgent reasons and compensating advantages.

An organization to be known as the Iowa Seed Dealers' Association was formed recently at Des Moines. The officers elected were: president, C. N. Page; vice-president, Henry Fields, Shenandoah; secretary, W. C. Adams, Decorah; treasurer, J. T. Hamilton, Cedar Rapids. In addition to these officers the executive committee includes H. A. Johns, Sioux City and J. W. Ratkin, Shenandoah.

Among the many June weddings last week one of especial interest to the trade was solemnized on the 12th inst. at "Briar Crest," the country seat of Mr. and Mrs. William Henry Maule whose daughter, Miss E. Virginia Maule was married to C. M. Provost Herring. Owing to the recent illness of Mr. Herring, only near relatives and a few intimate friends were in attendance.

From the consular report of Solomon Berliner at the Canary Islands we learn that the crop of onion seed for 1906 was enormous and far exceeded the demand. The export of onion seed from Teneriffe to the United States for the year amounted to \$14,729 and it is estimated that over 40,000 pounds were left on the hands of the dealers.

Thomas J. Grey will sail for Europe on the Columbia of the Anchor Line on June 29.

CELERY GROWING IN IRONDEQUOIT.

Irondequoit, N. Y., is one of the most prosperous celery-growing sections in this country. In carload lots alone nearly \$120,000 worth has been shipped from there the past season, besides a heavy trade with nearby cities and express shipments to New York and other points.

There are many methods in use in successful celery growing, but the Irondequoit growers all follow the same practice which is here described. The first and most important factor in growing celery is a good seed. Much seed is grown in America and for some reason gives more or less of

RUSTIC HANGING BASKETS



	Doz.	100
10 in. Bowl	\$1	10 \$11
12 " "	1.25	13
14 " "	1.50	16

W. Elliott & Sons
201 Fulton St., N. Y.

soft, stringy and tasteless stock. Be sure, then, that you get the right seed to start with.

Celery delights and thrives best in a muck land, but can be grown on any good garden soil with proper cultivation. However rich and mucky the land may be, it is positively essential to good crops that it be annually fertilized with about two inches of well-rotted stable manure, carefully plowed under. Ample moisture must at all times be provided for. For early varieties the seed should be sown in hot beds from February 15th or March 1st. The seed must not be covered too deep and the bed kept quite moist until the seed germinates. A temperature of 60 degrees is about right. When plants are two inches high thin out and transplant to three inches each way. When four inches high, cut off the tops (to make stocky,) and enough of the roots to admit of straight planting.

The most desirable time for setting plants depends much upon local climate. If good plants are used they can be set out as late as August 15th, but best results are obtained by setting from the middle of June to 1st of July, which brings the plants to maturity in this section during cool, moist weather. The old-fashioned method of deep trenches in which to plant celery has been abandoned by the up-to-date market gardener as a useless expense. The experience of the best gardeners is that celery will do much better planted on the surface of the same quality of soil besides making a quicker and larger growth, also saving the unnecessary labor and expense of trench digging.

It is well, under all circumstances, to select damp or wet weather for setting plants. Secure plants from seed, of uniform size so that field growth, by good treatment, may be about the same. Set in rows from five to six inches apart, and press with the feet both sides of the plant, which in a measure will prevent drying out.

H. R. PEACHEY.

To be continued.

ZIRNCIEBEL'S GIANT PANSIES

Fresh Crop

Now Ready

Famed for a quarter of a century and when you buy them you get the best in existence. I am continuing the pansy business on exactly the same standard as carried on by my father, the late DENYS ZIRNCIEBEL. None genuine unless sold by me.

AUGUSTUS ZIRNCIEBEL, Needham, Mass.

GIANT MARKET. "The Variety for the Million." Trade packet, 2000 seeds, \$1.00.

GIANT FANCY. The NE PLUS ULTRA in Pansies. Trade packet, 1000 seeds, \$1.00.

INCORPORATED.

A. W. Tyler Nursery Co., Council Bluffs, Ia.; A. W. Tyler, G. E. Tyler; capital stock, \$10,000.

Spokane Nursery Co., Spokane, Wash.; H. C. Rice, J. H. Munro, J. M. Harris, E. L. Rice; capital, \$50,000.

The business established by Thomas J. Grey and successfully carried on for many years under the name of Thomas J. Grey & Co., has been incorporated under the laws of the Commonwealth of Massachusetts as the Thomas J. Grey Co. The business will be continued at 32 South Market street, Boston.

The officers of the corporation are: Thomas J. Grey, president and treasurer; Peter M. Miller, secretary; John P. A. Guerinneau, general manager.

MOVEMENTS OF GARDENERS.

Emile Fardel has been appointed head gardener to H. P. Booth, Great Neck, L. I., N. Y.

William Tricker who has been in charge of the plantings at West Side Park, Jersey City, this season is about to locate in Arlington, N. J., and continue in similar lines of work specializing on waterlilies, hardy perennial and nursery stock, landscape work, etc.

FIRE RECORD.

The Customs Seed Co., San Francisco, Cal., lost their wholesale warehouses on June 9.

The residence of H. Staeps, Milwaukee, Wis., was burned on June 8; partially covered by insurance.

On Tuesday, June 25, the red flag will wave for the last time for this season over the entrance to 201 Fulton street, New York, and Auctioneer Wm. J. Elliott wishes the trade to show up in large numbers on that occasion and help close the season in due form. He promises a fine stock of good things and you make the price.

BRAINS are used in mixing our **PANSY SEED**

"BODDINGTON'S CHALLENGE" mixture contains all the finest *Giant* strains—the leading Pansy Specialists in the world—the *Giant* self colors, the *Giant* striped and margined, and the *Giant* blotched—all carefully mixed in proportion—the *finest* that money can buy—the *finest* your money can buy. A florist, who has grown it, said "Why don't you call it *Defiance*?"

Trade pkt. 75c, 1-4 oz. \$1.50, 1-2 oz. \$2.75, oz. \$5.00. New crop ready July.

... Order Now ...

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Extra selected mixed bulbs of all the finest varieties
75c per 100 per 1000, \$6.50

TUBEROSES

(Medium Grade)
Good Sized Bulbs
50c per 100 per 1000, \$4.00

FRENCH CANNAS

Fixed Colors, Dormant Root
\$1.50 per 100 \$13.50 per 1000

CALADIUM ESCULENTUM

(Elephant Ears)
5 to 7 in., per 100 per 1000
9 to 11 in., \$2.00 \$18.00
11 to 13 in., Mammoth, 5.00 45.00
9.00 80.00

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are the product of the world's leading Pansy Specialists and absolutely unsurpassed in quality by any strain extant. A trial will give you the most gratifying results and prove our statement. We offer seed as follows; Per 1000 seeds, 30c; 2000 seeds, 50c; 5000 seeds, \$1.00; per ounce, \$5.00.

Send for our complete Pansy list.
Orders booked for French and Dutch Bulbs.
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GLADIOLUS BULBS

In variety and mixture
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All the best varieties in separate colors
VICK'S SUPERB MIXTURE
the best strain from all the leading named sorts:
1-8 oz. 85c 1-4 oz. \$1.60 Ounce \$6.00
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PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a large supply of exceptionally fine quality.

For the Lawn,
The Greenhouse,
For the Herbaceous Garden,
For the Flower Garden,
For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

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6 and 7 So. Market St., BOSTON.

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ASPARAGUS PLUMOSUS NANUS SEED.
Cold Storage LILY OF THE VALLEY
PIPS, best possible grade, in cases of 1000
and 3000 pips each, at \$12.00 per 1000.
Advance Orders now being booked for
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The Tarrytown Fern

A good stock in all sizes on hand at all times. A splendid seller and money-maker. Large specimen plants, ready for immediate sale: 6-inch at 75c and \$1.00 each; 8-inch at \$1.50 and \$2.00 each; 10-inch at \$3.00 each; 12-inch at \$5.00 each; 14-inch at \$7.50 each; 16-inch at \$10.00 each. Also fine young stock for growing on, 2¼-inch at \$8.00 per hundred.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

Special Culture of the Kentia



PALM HOUSES OF JOSEPH HEACOCK

During the past 10 or 15 years palm culture has made great progress in the United States especially along the Atlantic seaboard. Large areas of glass are now devoted to their culture, many important establishments giving up almost their whole area to this crop alone. Nowhere is this more manifest than in the neighborhood of Philadelphia where the business may be said to have had its early impetus.

The principal varieties grown for the commercial trade are Kentia Belmoreana, K. Forsteriana, Cocos Weddelliana, Areca lutescens, Phoenix reclinata and Rhapsis flabelliformis. Lantania borbonica, once largely grown, has been dropped to a great extent.

At first the young plants were imported from Europe and "grown on," but now the up-to-date concerns such as the Dyer Co., Heacock Co., Chas. D. Ball, W. K. Harris, and Robert Craig Co., depend more on seeds for their stock. Great care is taken to have the seeds fresh and they are sown immediately on their arrival. Some varieties germinate in a few weeks others take a year and longer.

Joseph Heacock, who is an expert in kentia culture as is evidenced by a recent visit to his establishment where a large area is filled with perfect specimens, says that one of the first requisites is patience. He thinks Job would have had the only real test of patience if he had been put up against the palm growing job. "You put in the seed," said he, "and wait for months—often a year will pass before they are all out of the seed bed. All through this your capital lies buried: wages, coal, interest, and other bills keep piling up. The adage of the bumble sixpence does not apply to kentia culture for you have to wait four or five years before you get any returns to speak of." Mr. Heacock thinks on the whole he would have been better off if he had stuck to roses alone. This seems rather a pessimistic view in face of the fact that fifty to a hundred thousand seeds of kentia are being sown at this place every year.

In growing kentias, and in fact all kinds of palms, Mr. Heacock quotes Jefferson "Eternal vigilance is the

price of liberty." A compost of loam and peat in about equal proportions is the generally adopted medium with the addition of a little silver sand. Kentias require plenty of pot room and plenty of water both under and overhead throughout the summer. As Mr. Heacock says, the great enemy is scale. To keep down this pest tobacco water has been found the most effective. This is prepared in tubs large enough for dipping the entire plant, after which they are thoroughly gone over by hand carefully sponging every leaf. The same applies to red thrips although these are a less frequent enemy.

Five years ago the supply was ahead of the demand and many growers dropped out. At present the tone of the market is much healthier and there is good demand for all sizes. Large plants are scarce and bring high prices. Palms will always hold a high place as decorative plants and it is gratifying to know that our American growers are keeping fully abreast of the times.

GEORGE C. WATSON.

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Our lilies are bought for and placed in cold storage for the express purpose of delivering bulbs in the **summer time**.

Lilium ongiflorum and giganteum take about two months to bloom from

time of planting from cold storage. Speciosum from five to six months, so that longiflorum wanted for Thanksgiving and Christmas should be planted about Oct. 1st, and speciosum and auratum about July 1st.

We have limited quantities of the following varieties on hand and offer subject to being unsold and at the prices named; will hold not later than Oct. 1st, for our customers without any additional charges for cold storage. **ORDER TO-DAY.** All cases repacked before shipment. Full cases sold at 1000 rate.

Lilium Longiflorum Giganteum—Cold Storage

	Per 100	Per 1000
7 to 9-in. bulbs, 300 in case...	\$ 8.00	\$ 75.00
9 to 10 " " 200 " " ...	13.00	125.00

Lilium Longiflorum Multiflorum—Cold Storage

9 to 10-in. bulbs, 200 in case...	11.00	100.00
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Lilium Speciosum Rubrum—Cold Storage

	Per 100	Per 1000
8 to 9-in. bulbs, 200 in case ..	8.00	75.00
9 to 11 " " 150 " " ...	12.50	110.00

Lilium Speciosum Melpomene—Cold Storage

	Per 100	Per 1000
8 to 9-in. bulbs, 200 " " ...	9.00	80.00
9 to 11 " " 150 " " ...	12.00	115.00

Lilium Auratum—Cold Storage

8 to 9-in. bulbs, 160 in case...	5.50	50.00
9 to 11 " " 120 " " ...	9.00	80.00
11 to 13 " " 75 " " ...	16.00	150.00

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200,000 Calla Lily Bulbs--Æthiopica



Calla Æthiopica, 10 inches circumference	100	1000
" " 9 " "	\$10.00	\$90.00
" " 8 " "	9.00	80.00
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" " 6 " "	7.00	60.00
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The above Bulbs are all warranted to be free from disease, and safe arrival is guaranteed. My first car leaves for the East promptly on July 15. If cash is sent with the order I will prepay the freight, which is 15 per cent value of the bulbs.

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Ageratum Inimitable, Blue Perfection, Heliotropes, Ipomaea Heavenly Blue, Lobelia, Parlor Ivy, Snapdragon Giant White, Shasta Daisies, 3 varieties. Night-Blooming Jasmine. Stevias dwarf and tall, Asparagus Sprengeri, Asparagus plumosus and Sprengeri, strong plants, 5-inch pots, \$2.00 per doz. Passiflora coerulea, Pfordii x Mammoth Beauty, a hardy variety from 4-inch pots, \$1.00 per doz; 3-inch pot plants, 75c. per doz. Clematis paniculata, 3-inch pots, 75c. per doz., \$5.00 per 100. Clematis, large-flowering varieties, home grown, two year old plants, \$3.00 per doz. Swainsona alba, 3-inch pots, \$5.00 per 100. Achyranthus Lindenii, Alternantheras, yellow, 2½-inch pots, \$2.00 per 100. Crotons, 4 in. pots, \$2.00 per doz. Asparagus Sprengeri, seedlings from flats at \$1.00 per 100. Chrysanthemums, best leading varieties, White, Yellow and Pink Plants from 2½-inch pots, \$2.00 per 100.

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Boston and Scotti Ferns

Dozen, \$6.00; 100, \$45.00; 1000, \$400.00
From 6-inch pots

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\$6.00 per 100

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2½ inch pots, \$3.00 per 100.
3 inch pots, \$4.00 per 100.

GARDENIA VEITCHII

20,000 plants in 2½ and 3 inch pots.
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DRACAENA INDIVISA

25c. to \$1.00 each
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Calla Lilies, in bud or bloom, in 5 and 6 in. pots, 35c. each. \$30.00 per 100.
Large Marshal Niel Roses, \$1.00 each.
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Geraniums Geraniums

The following varieties, in 4 in. pots, in bud and bloom, in fine condition. \$6 per 100.
S. A. Nutt, Beaute Poitevine, LaFayette, John Doyle, Bruntii, Marq. Castellane, Trego, Buchner, Richard Brett, Ricard, F. Perkins, Jean Viaude, Double Grant, Marq. de Montmort and several others.

Selection of sorts to remain with us.

Cash to accompany all orders.

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GERANIUMS

3000 to 4000 Geraniums, S. A. Nutt, Beaute Poitevine, in 3 and 3½ in. pots, \$6.00 per 100.
200 Beaute Poitevine, very large plants, 13-15 inches in diameter, \$6.00 per dozen.

Call and inspect the stock before buying elsewhere.

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Also a fine lot of Palms in all sizes, such as Kentias, Arcas, Latanias, Phoenix and Cocos. Pandanus Veitchii and utilis, Crotons, Dracaenas, Nepenthes, Aralias, Araucarias, Aspidistras, Ferns suitable for dishes, in leading varieties. Clbotium Schiedel from \$1.00 to \$3.00 each.

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H. BAYERSDORFER & CO., 1129 Arch St., Phila., Pa.

The Florists Supply House of America.

AMERICAN CARNATIONS IN DENMARK.

Paper Read Before the American Carnation Society at Toronto.

BY P. RIISE.

Carnations are not grown on a very large scale here yet but they are shipped in from Italy and Southern France from November till May and it is very hard for the home growers to compete with the imported goods. We cannot get as nice carnations in midwinter as you can in America, as the days are very short and we get a very little sunshine. I have been growing carnations here since 1899 and have been growing nothing but the American sorts. The first winter I had a good deal of trouble with the plants, a good many rotting on account of the damp and cloudy weather.

The first sorts I started with were Daybreak, Flora Hill, C. A. Dana, Wm. Scott, Triumph, Evelina and Gold Nugget but have now discarded them all with the exception of Triumph and Daybreak. Flora Hill did not give blooms enough and besides, white is not as much called for as colors. C. A. Dana was too small. Scott came too late with its second crop—it would not come till the last part of May. Evelina rotted all the first fall in a short time. Gold Nugget did not give flowers enough and the most of them came imperfect. Daybreak rotted all with the exception of two or three plants and I thought of discarding it, but by careful handling, I have since had very good success with it, and it has up till this day been one of my best paying varieties. It is a little inclined to be weak in the stem in the winter time. My best paying variety has been Triumph. It blooms early in the fall—some all through the winter. It seldom splits and it gives a good heavy crop early in the spring, but it sometimes is pretty badly affected with stem rot. I have since tried Ethel Crocker, Gov. Roosevelt and Mrs. Lawson. Crocker splits badly in the fall and all through winter and don't give a good crop before the middle of summer, too late to pay. Roosevelt gives a good flower, a good stem, but hardly blooms enough in fall and winter to pay and it also comes too late in the spring with the best crop to be of much account. Lawson splits badly and has rather short stem in the fall, but in early spring it gives

a heavy crop of nice flowers and a good long stem just in the right time to bring a good price.

In the spring of 1905, I bought some of the newer American varieties. I got them from England, but they are quite expensive there. They charge from 1 to 2 shillings apiece. Others have tried to import them from America, but not with very good success. In the most cases they were dead when they arrived. The varieties I am trying are Flamingo, Harlowarden, Harry Fenn, The President, America, Enchantress, Prosperity, Floriana, Indianapolis, Nelson Fisher and White Lawson. I have not formed any decided opinion of them yet as I only got a dozen of each, and have used them for propagating only last winter, but my idea of the different varieties so far this fall has been that Enchantress is a fine flower, good color and stem, but will not give so many flowers as Daybreak and was a good deal affected with stem rot in the field. Prosperity I don't think will pay, as variegated colors don't sell so well and it has not bloomed very much so far. Estelle looks as if it would be one of the best. It starts to bloom early and very freely, good sized flower, stiff stem, and doesn't split. Flamingo is a fine flower but too late. America is too pale in the winter. In the dark varieties Harry Fenn is to date the best. Harlowarden is rather too dark in winter. The President made a very poor growth in the field. White Lawson don't pay. Floriana is one of the colors the most called for, but has bloomed very little so far. Indianapolis may take the place of Triumph. Nelson Fisher, one of the best. Fine color, free blooming, good stem, don't split, has made a good growth in the field and bench and not troubled with any kind of disease so far, but very hard to propagate in winter but roots quite freely in August.

We plant in the field about the first of May and lift again the first part of August, but we hardly get as strong growth as you do in the United States. Heretofore I have been propagating my plants in the fall and early winter, but this year, I have propagated most of my plants early in August and I now have very strong plants, and then keep them quite cool, through the winter just about freezing. In that way I take the cuttings from the old plants just before throwing them out. They give very good cuttings at that time, as we are not troubled much with red spider and the summer is not

so hot as that they will make a good growth all through the summer and in this way we save the plants a good deal in the fall. In some places here they keep the young plants in a cold frame all winter, only protecting with glass and shutters and the ground will at times be frozen hard, but it is mostly the European varieties they keep in that way, but I think it a little risky as I saw in one place where they all died in a short time from drip and rot.

When I first started I kept my carnations on a night temperature of about 50 degrees Fahrenheit. The stems would then be rather weak, but nevertheless they sold well all through the winter at five cents apiece, but in the last few years, the importations from the South have increased to such an extent that good carnations are sold here in midwinter at 25 to 30 cents a dozen; in fact, better flowers than we can produce here in the short days. I now keep them on about 38 to 40 degrees Fahrenheit through December, January and February. In that way we get a very few flowers in midwinter, but the plants will be better and stronger in the spring and will give a good crop in April, May and June, the time when there is the biggest demand for them. On the whole, we have to look for such varieties as will give a good crop in October and November and again in the spring, and we will get a better price than in midwinter. They are at present working on a revision of the tariff and if we should get a duty on cut flowers, it would be a great help to the florist and there would be grown a great many more carnations round this city.

NEWPORT PERSONALS.

The summer people are coming in fast now that the heat in the cities is beginning to be felt.

Ralph Armstrong is here for the summer in charge of the Wadley & Smythe store on Bellevue Ave.

F. L. Zeigler has opened a store on Bellevue avenue. Mr. Zeigler will also continue to do business at his old stand on Broadway.

Bruce Butterson, president of the Newport Horticultural Society is seriously ill at his residence on Parker Ave. Last reports however indicated an improvement in his condition. Much sympathy is manifested for Mr. Butterson by his numerous friends here.

NEWS NOTES.

J. F. Pogam has discontinued business at Washington, Pa.

The Savannah Floral Co., is the new name adopted by the firm of George Wagner's Sons in Savannah, Ga.

Joseph Herzog of Minneapolis is the new manager of the Wm. Roethke Floral Co.'s business at Bay City, Mich.

E. S. Morse has purchased a half interest in the Ernsberger greenhouse at Fort Wayne, Ind., and in August will take full charge of the business.

Tony Russo, who broke into the greenhouses of Peirce Bros., at Waverley, Mass., and stole carnations and other flowers has been ordered to pay the sum of \$50 and leave the State.

The capital stock of the Franklin Floral Co., Columbus, O., has been increased from \$15,000 to \$30,000. It is said that additional buildings will be erected.

The disappearance of John Allwood, from Hudson, Mich., was followed by his announcement from Canada that he was on his way to Alaska. His business affairs are left in the hands of his wife for settlement.

The South Bend (Ind.) Floral Company held its opening in the Oliver Hotel apartments on June 13. There was an elaborate floral decoration and an immense crowd of visitors, each of whom received a souvenir of the occasion.

Favorable report has been made in the State Legislature by Appropriations Committee on allowing \$40,000 for a horticultural building and greenhouses at the Connecticut Agricultural College, under the supervision of G. S. Palmer, A. J. Pierpont and L. J. Storrs.

Charles A. Dards has bought a four-story dwelling at No. 114 West 72nd street, New York, and will remodel the building for business purposes, opening as soon as completed a branch of his Madison avenue flower business. This is the first sale of a residence on this street for business purposes.

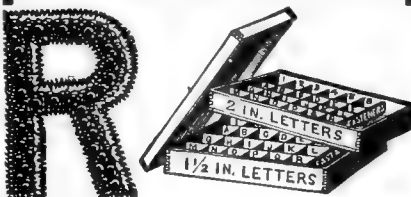
James Cole, 55th street and Chestnut, Philadelphia, is engaged in a controversy with the city over the appropriation of some land for street purposes, to which he claims ownership. He has fenced it off and plowed and planted it with roses and carnations and intimates that he will take extreme measures to protect his crops. They are not all asleep in Philadelphia.

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per 1000

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Store Closes 3 P. M.

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	CHICAGO June 4	TWIN CITIES June 17	PHILA. June 17	BOSTON June 20
ROSES				
Am. Beauty, Fan. & Sp.	30.00 to 35.00	25.00 to 30.00	20.00 to 25.00	15.00 to 25.00
" Extra.	40.00 to 25.00	20.00 to 25.00	12.00 to 20.00	10.00 to 12.00
" No. 1.	12.00 to 15.00	18.00 to 20.00	6.00 to 10.00	6.00 to 8.00
Lower grades.	6.00 to 10.00	12.00 to 15.00	2.00 to 5.00	.50 to 3.00
Bride, "Maid, Golden Gate, F. & S.	6.00 to 8.00	8.00 to 10.00	6.00 to 10.00	4.00 to 6.00
" " " Extra.	4.00 to 5.00	6.00 to 8.00	4.00 to 5.00	3.00 to 4.00
" " " No. 1 & lw. gr.	3.00 to 4.00	4.00 to 6.00	1.00 to 3.00	.50 to 1.00
Liberty, Richmond, Fan. & Sp.	6.00 to 8.00	8.00 to 10.00	10.00 to 12.00	6.00 to 8.00
Lower grades.	4.00 to 5.00	6.00 to 8.00	2.00 to 6.00	.50 to 4.00
Chatenay, Morgan, Fan. & Sp.	6.00 to 8.00	8.00 to 10.00	6.00 to 10.00	3.00 to 5.00
Lower grades.	3.00 to 4.00	6.00 to 8.00	2.00 to 5.00	.50 to 2.00
Killarney, Wellesley, Fan. & Sp.	6.00 to 8.00	8.00 to 10.00	6.00 to 10.00	6.00 to 8.00
Lower grades.	3.00 to 4.00	6.00 to 8.00	2.00 to 5.00	1.00 to 3.00
CARNATIONS				
Fancy and Novelties.	2.00 to 3.00	2.00 to 3.00	2.00 to 4.00	1.00 to 2.00
Ordinary.	1.00 to 2.00	1.50 to 2.00	1.00 to 2.00	.50 to 1.00
MISCELLANEOUS				
Sweet Peas. ....	.50 to 1.50	.75 to 1.00	.25 to 1.00	.15 to .50
Cattleyas.	50.00 to	50.00 to 60.00	50.00 to 60.00	35.00 to 60.00
Lilies.	12.00 to 15.00	12.00 to	4.00 to 12.50	6.00 to 10.00
Callas.	8.00 to 10.00	12.00 to	4.00 to 12.50	6.00 to 10.00
Lily of the Valley.	2.00 to 4.00	2.00 to 3.00	2.00 to 4.00	2.00 to 4.00
Gardenias. ....	.50 to 1.50	.50 to .75	2.00 to 10.00	2.00 to 4.00
Mignonette.	4.00 to 8.00	3.00 to 5.00	2.00 to 3.00	1.00 to 2.00
Lilacs (100 bunches). ....	..... to .....	..... to .....	..... to .....	..... to
Peonies.	2.00 to 8.00	8.00 to 10.00	1.00 to 5.00	4.00 to 8.00
Adiantum.	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax.	15.00 to 18.00	12.00 to 15.00	12.50 to 15.00	12.00 to 16.00
Asparagus Plumosus, strings.	35.00 to 50.00	50.00 to	35.00 to 50.00 to 50.00
" & Spreng. (100 bchs.)	35.00 to 50.00 to 50.00	35.00 to 50.00	35.00 to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON

The market still continues in bad shape owing to the enormous supplies forced in by the extremely hot days of the present week. Qualities are also affected considerably by the heat. Up to the present time roses have been remarkably good. Carnations are very abundant and in lots of one thousand or more the buyer makes the price. Peonies are also coming in heavily, but the special grade blooms bring a fairly good figure. Many are poor and ragged, however. Sweet peas have experienced a big slump. Pink pond lilies are now coming in; sales slow at \$2 to \$4 per 100.

COLUMBUS

Stock of all kinds is coming in more freely, with the natural result that prices have softened considerably. Carnations are in enormous supply. Outdoor stock is beginning to come in large quantities, especially peonies. A very careful comparison with a year ago, shows hardy stock to be from three weeks to a month behind. Our florists will all be very busy the rest of the month with the usual June weddings and school commencements. Bedding plants are now about all planted. Trade is certainly good.

DETROIT

The time has arrived when the supply overreaches the demand. While funerals or commencements keep most of the stores humming there is a remarkable lack of large weddings. Flowers of every description are plentiful. The plant men also have sold out quite generally notwithstanding the late beginning of the planting season.

INDIANAPOLIS

Business has kept up nicely for the past week. The market shows signs of a break in prices. Roses are plentiful and good for this time of the year. Carnations remain of excellent quality and there seems to be a good demand for them. Lilies are to be had in large numbers; also lily of the valley and sweet peas. Thousand of peonies are being cut but it is impossible to dispose of all profitably. This has been an unusually good season for the retailer, the cool weather enabling him to obtain good prices for his stock. The veranda and window box, as well as the bedding trade goes merrily on and probably will keep the florists busy till the first of July. The green goods market is well stocked and there is an excellent demand.

NEW YORK

Present conditions do not favor the maintenance of set prices on anything. The cut of roses is not heavy but the small amount of business being done and the volume of other material keeps quotations very low. Carnations are very plentiful and generally of excellent quality but they are cheap. The belated peonies are just beginning to come along and present indications point to no shortage during June. Sweet peas are very abundant and fine.

PHILADELPHIA

Business here was rather spasmodic last week, but on the whole it may be summed up as a fairly satisfactory market for mid-

June. The first half is now the best, most social affairs being through by Friday or Saturday, when people leave for the seashore or mountain. Beauty roses were too plenty on Monday, scarce later, and by Saturday too many again. Bridesmaids had the call on higher grades, but Brides and Kaisers were in best demand in the lower qualities. Richmonds and Libertys are of good quality; carnations fine, but entirely too plentiful; impossible to find a market for more than one half of them. Peonies are in their glory at present but "what's the use"? It is impossible to find a market for all the fine stock coming in. The lily of the valley market is the steadiest of any at present. The outside sweet pea crop is now coming in and is very fine. Ten-week stocks, Bride and Blushing Bride, and Crawford's May gladioli are conspicuous; also hardy phloxes and blue cornflowers.

Trade so far this month is the best we have had in years.

Stock is plentiful, the growers have reduced their figures materially but the retailers have not as yet made any cut in the prices. Roses are still retailing at figures which allow the store men a nice profit. The weather is exceedingly hot and its effect is already noticed on the size of the carnations. A number of banquets, also graduating exercises have greatly increased the demand. Secretary Taft was banqueted on the 14th; the floral decorations were extensive. Planting is still going on quite heavily.

WASHINGTON

After a solid week of rain, Washington is enjoying regular summer weather, and the market has become somewhat crowded as a result of the sunshine. Carnations have taken a drop in price, and are in abundance. Crimson Ramblers are just coming in and the quality is unusually fine. Planters of fall crops are away behind in their work, and should there be early frosts there will be nothing doing in the dahlia and cosmos lines. Commencements still delight the heart of the retailer, but the end of June will wind them up, and with society people off for the seashore, etc., there will be but little flower news from Washington for the next two months.

BUSINESS CHANGES.

LePage Bros., succeed Hilary E. LePage at Stamford, Ct.

G. Johnson has hired the Yates greenhouses at Champaign, Ill.

Walter Garbett has bought the Brad-dock street store of L. I. Neff, Pittsburg, Pa.

Frank S. Hicks has severed his connection with Hicks & Crawbuck, Inc., Brooklyn, N. Y., having sold his interest to Mr. Crawbuck by whom the business will be run under the old name. Mr. Hicks has rented the store at 52 West 28th street, New York, where he will carry on the wholesale cut flower business. E. J. Van Ryeper, who has been in the employ of Hicks & Crawbuck for some time will go to New York with Mr. Hicks, who expects to open up early in July, so as to get nicely started by the time the fall business begins.

OBITUARY.

Dr. Maxwell T. Masters.

It is with a feeling of sadness that we record the death of this eminent horticulturist and author. The loss to the Gardeners' Chronicle of London, over which he has presided as editor



DR. MAXWELL T. MASTERS.

for more than forty years, is a severe one, but it is equally so, in a broader way, to every lover of horticulture and admirer of its noble exponents among whom Dr. Masters stood in the first rank. By those who knew him personally he is spoken of as a genial gentleman, and kind and sympathetic friend, and the announcement of his demise has called forth tributes to his worth and expressions of bereavement such as it is given to but few to merit. Dr. Masters died of heart failure on May 30 at his residence at Ealing, after four weeks' suffering from pleurisy and pneumonia. He was 74 years of age. We know that among our readers there are many to whom Dr. Masters and his work are well known, and we feel sure that they will join with us in extending to the afflicted family of the deceased, to our distant contemporaries, and to the horticultural world generally our sincere sympathy in the great loss which they have sustained.

Other Deaths.

Paul Pavelchik, wire designer, died in Chicago on June 1.

George Marzolf, a retired gardener of Allegheny, Pa., born in Alsace, Germany, died on June 8, aged 67. Three sons and a daughter survive him.

Mrs. Johanna Duane, widow of John Duane an old and popular member of the Boston florist fraternity, died at her home in West Medford, Mass., on June 13, aged 83 years.

Otto Schwill, Sr., died in Memphis, Tenn., on June 10, aged 61. Mr. Schwill was born in Koenigsberg, Germany, but came to this country in 1861, and since 1869 has been located in Memphis as the head of the firm of Otto Schwill & Co. He is survived by a widow, two sons and two daughters.

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	Last Half of Week ending June 15 1907	First Half of Week beginning June 17 1907		Last Half of Week ending June 15 1907	First Half of Week beginning June 17 1907
Roses			Carnations, Ordinary.....	.50 to 1.00	.50 to .75
Am. Beauty, fan and sp.	12.00 to 25.00	10.00 to 20.00	Sweet Peas (100 bunches).....	4.00 to 10.00	2.00 to 6.00
" extra.....	6.00 to 10.00	6.00 to 10.00	Cattleyas.....	20.00 to 30.00	20.00 to 30.00
" No. 1.....	3.00 to 6.00	3.00 to 5.00	Lilies.....	3.00 to 4.00	3.00 to 4.00
" Lower grades.....	.50 to 2.00	.50 to 2.00	Callas.....	3.00 to 4.00	3.00 to 4.00
Bride, 'Maid, Golden Gate, fan & sp	4.00 to 6.00	3.00 to 5.00	Lily of the Valley.....	1.00 to 2.00	1.00 to 2.00
" " Extra.....	2.00 to 4.00	2.00 to 3.00	Gardenias.....	2.00 to 10.00	2.00 to 10.00
" " No. 1 & lw. gr.	1.00 to 2.00	.50 to 2.00	Mignonette.....	1.00 to 2.00	1.00 to 2.00
Liberty, Richmond, fancy & special	4.00 to 8.00	4.00 to 8.00	Lilacs (100 bunches).....	..... to .....	..... to
" lower grades ..	1.00 to 2.00	.50 to 2.00	Peonies.....	3.00 to 6.00	2.00 to 8.00
Chatenay, Morgan, fancy and spec.	3.00 to 5.00	3.00 to 5.00	Adiantum.....	.50 to .75	.50 to .75
" lower grades ..	1.00 to 2.00	.50 to 2.00	" Croceanum.....	1.00 to 1.50	1.00 to 1.50
Killarney, Wellesley, fan. and spec.	4.00 to 6.00	3.00 to 5.00	Smilax.....	8.00 to 12.00	8.00 to 12.00
" lower grades..	1.00 to 2.00	.50 to 2.00	Asparagus Plumosus, strings....	20.00 to 25.00	20.00 to 30.00
Carnations, Fancy and Novelties..	1.50 to 3.00	1.00 to 3.00	" " & Spreng. (100 bchs.)	10.00 to 20.00	10.00 to 25.00

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EXTRA FINE FANCY and DAGGER FERNS \$2.50 per 1000

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\$7.50 Case of 10,000

Let us have your standing order for Fern.

BOXWOOD 20c lb., 50 lbs. \$8.50

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38-40 BROADWAY, . . DETROIT, MICH.

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N. F. MCCARTHY & CO.

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Headquarters in Western New York

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ROSES, CARNATIONS

And all kinds of Seasonable Flowers

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BUFFALO, N. Y.

Give us a trial. We can please you.

The KERVAN CO.

20 WEST
27th ST., N. Y.

WHOLESALE DEALERS

Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen

PHILADELPHIA FLOWER NOTES.

Pennock Bros. are making a specialty of steamer baskets at present. This is an outlet which has been paid but scant attention to as yet. They make a nice display of artistic baskets with the name of steamer, etc., on the tag—a timely reminder which attracts the attention of the passerby, and loosens the purse strings of the wealthy. What we need is more thinking and enterprise in new directions. This move of the Pennocks is in the right direction. Atlantic and Pacific coast florists please copy.

Wm. H. Vance has found Glacier one of the best paying propositions in carnations this year. This variety is the greatest producer of shorts in the market. While the price is small the aggregate returns for the season have been very satisfactory.

May flowering tulips have again made a big stride in popular favor. Bookings so far for next fall's delivery are nearly double last year. The favorite varieties are Bouton d'Or, Isabella, Maiden's Blush and Sweet Nancy. Bizarres and Bybloemens also come in for a fair share of the demand.

W. F. Feller formerly of Red Hook, N. Y., will continue violet raising in Rhinebeck.



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FANCY and DAGGER FERNS

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Fancy, \$1.75 per 1000; Daggers, \$1.50 per 1000.
Laurel Festooning, best made, 4c, 5c and 6c per yard; once used, always used. Laurel Wreaths, \$3.00 per doz.; cheaper grades if wanted. Southern Smilax, fancy stock, 50-lb. cases, \$5.50. Branch Laurel, 35¢ per bunch. Princess Pine, 7c per lb. Brilliant, Bronze or Green Galax, No. 1 stock, 75c per 1000, or \$6.50 per case of 10,000.

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CROWL FERN CO., Millington, Mass.

HENRY M. ROBINSON & CO.

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WHOLESALE FLOWER MARKETS.

PER 100. TO DEALERS ONLY.

	CINCINNATI June 18	DETROIT June 17	BUFFALO June 17	PITTSBURG June 17
ROSES				
Am. Beauty, Fan, and Sp.....	25.00 to 30.00	..... to	20.00 to 22.00	20.00 to 25.00
" Extra	20.00 to 25.00	20.00 to 25.00	15.00 to 20.00	12.50 to 15.00
" No. 1	15.00 to 20.00	15.00 to 18.00	8.00 to 15.00	6.00 to 8.00
" Lower grades	8.00 to 10.00	8.00 to 12.00	3.00 to 5.00	1.00 to 3.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	6.00 to 8.00	7.00 to 8.00	6.00 to 8.00
" " Extra	4.00 to 6.00	4.00 to 6.00	6.00 to 7.00	..... to 5.00
" " No. 1 & lw. gr.	2.00 to 4.00	2.00 to 4.00	2.00 to 6.00	2.00 to 3.00
Liberty, Richmond, Fan, & Sp....	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	8.00 to 10.00
" Lower grades	3.00 to 4.00	2.00 to 4.00	3.00 to 10.00	2.00 to 5.00
Chatenay, Morgan, Fan, & Sp....	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	8.00 to 10.00
" Lower grades	3.00 to 4.00	2.00 to 4.00	3.00 to 10.00	3.00 to 6.00
Killarney, Wellesley, Fan, & Sp...	6.00 to 8.00	6.00 to 8.00	10.00 to 15.00	6.00 to 8.00
" Lower grades	2.00 to 4.00	2.00 to 4.00	3.00 to 10.00	3.00 to 4.00
CARNATIONS				
Fancy and Novelties	2.00 to 3.00	2.00 to 3.00	2.50 to 3.00	1.50 to 2.00
Ordinary	1.00 to 2.00	1.00 to 2.00	1.50 to 2.50	..... to 1.00
MISCELLANEOUS				
Sweet Peas .....	.25 to .50	.25 to 1.00	.40 to 1.00	.25 to 1.00
Cattleyas .....	..... to	50.00 to .....	..... to	40.00 to 50.00
Lilies	8.00 to 10.00	12.50 to 15.00	8.00 to 12.00	8.00 to 10.00
Callas	6.00 to 8.00	12.00 to 15.00	8.00 to 10.00	8.00 to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	..... to 4.00
Gardenias	1.00 to 2.00	..... to	1.00 to 3.00	..... to
Mignonette	1.00 to 2.00	.25 to 1.00	1.00 to 3.00	..... to
Lilacs (100 bunches) .....	..... to .....	..... to .....	..... to .....	..... to
Peonies	2.00 to 4.00	5.00 to 8.00	3.00 to 6.00	4.00 to 6.00
Adiantum .....	..... to 1.00	1.00 to 1.50	.50 to 1.00	1.00 to 1.50
Smilax	12.00 to 15.00	12.50 to 15.00	15.00 to 20.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	20.00 to 30.00	40.00 to 50.00	50.00 to
" " & Spren. (100 bchs.) to 25.00	20.00 to 30.00	25.00 to 50.00	40.00 to 50.00

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Long Distance 'Phone 1435 Court.

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Beaven's Fadeless Moss

Natural Sheet Mosses

E. A. Beaven, Evergreen, Ala.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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R. J. Dysart, 28 State St., Boston.
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ACONITUM

Aconitum, Napellus and Bicolor; fine plants. Write for prices to T. H. Chivers, Newburyport, Mass.

ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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AQUATICS

Water hyacinths, \$2.00 per 100.
C. W. Bakewell, Gretna, La.

ARAUCARIAS

A. Leuthy & Co., Roslindale, Mass.
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ASPARAGUS

C. Elsele,
11th and Roy Sts., Philadelphia, Pa.
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Wm. C. Smith, 61st and Market Sts., Philadelphia.

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John C. Hatcher, Amsterdam, N. Y.

Asparagus Sprengerii.

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Asparagus Plumosus nanus and Sprengerii, 2 1/2 in.; ready for planting out in larger pots. \$3.00 per 100; \$25.00 per 1000; 5000 at 1000 rates. J. F. Anderson, Short Hills, N. J.

Asparagus plumosus nanus and Sprengerii, 2 1/2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellcott St., Buffalo, N. Y.

AUCTION SALES

Bedding plants, trees, shrubs, conifers, bay trees, etc., every Tuesday and Friday. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

AZALEAS

A. Leuthy & Co., Roslindale, Mass.
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Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

J. E. Felthousen, Schenectady, N. Y.
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C. Elsele, 11th and Roy Sts., Phila.
Spring Bedding Plants.

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John Scott, Rutland Road & 45th St., Brooklyn, N. Y.

100,000 Bedding Plants, all sorts. Write for prices. E. D. Kaulback & Son, Malden, Mass.

Spring Bedding Plants in variety at auction every Tuesday and Friday during spring season. Purchases made on order. Mail your bid. N. F. McCarthy & Co., 84 Hawley St., Boston.

BEGONIAS

Wm. Elliott & Sons, 201 Fulton St., N. Y.
Tuberous Begonias.

Begonia Gloire de Lorraine. Extra fine, 2 1/4 inch pot. Leaf cutting \$12 per 100; \$100 per 1000. Delivery May 1st. Julius Roehrs Co., Rutherford, N. J.

BOILERS

Kroeschell Bros., 35 Erie St., Chicago.
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BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BOUVARDIAS

A. N. Pierson, Cromwell, Conn.

BOXWOOD

Anton Schultheis, College Point, N. Y.
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BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

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A. T. Boddington, 342 W. 14th St., N. Y.
Cold Storage Lilies.

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Richards Bros., 37 East 18th St., New York.

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H. F. Michell Co., Philadelphia.

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Johnson Seed Co., 217 Market St., Phila.

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Jonh Scheepers & Co., Arnhem, Holland.

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H. E. Fliske Seed Co., Faneuil Hall Sq., Boston.

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A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.

Calla Bulbs.

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James Vick's Sons, Rochester, N. Y.

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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

Price list of native bulbs, tree, shrub and plant seeds now ready. L. E. Williams, Nottingham, N. H.

CANNAS

The Conard & Jones Co., West Grove, Pa.
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CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.

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F. Dorner & Sons Co., Lafayette, Ind.
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Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by Glass.

CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
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W. W. Edgar Co., Waverley, Mass.
Chrysanthemums.

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A. N. Pierson, Cromwell, Conn.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.

Chrysanthemum Golden Dome.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting, 383 Ellcott St., Buffalo, N. Y.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

Nothing worth growing but the best. Oct. Frost, Beatrice May and Nivena our most profitable white.

Rosiere, M. F. Plant, Mayor Weaver, grand new pinks, Pres. Roosevelt, the glorified pink Ivory Santa Claus, Xmas pink. Strong plants topped back 8c., R. C., 3c.

C. Tousey, Mrs. Duckham, Oct. Sunshine, Monrovia, strong plants, 5c.; R. C., 3c.

J. K. Shaw, best early pink, Wm. Duckham, Enguehard, also Adelia, incurved white and Jeanne Nonin, the July late white; plants 3c., R. C., 2c. City greenhouses, Union City, Pa.

COLEUS

A. N. Pierson, Cromwell, Conn.

Coleus, Golden Bedder and Verschaffeltii from 2 1/2 in. pots, \$2.50 per 100. H. W. Mann, Stoughton, Mass.

CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.

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Wm. H. Moon Co., Morrisville, Pa.

American Arborvitae.

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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.

Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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CYCLAMEN.

Giant Hybrids transpl., ready for 2-in. and 3-in., \$3.50 100; \$30.00 1000. Plants grown of seed taken from the cream of my well known strain. Christ. Winterlich, Cyclamen Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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Dahlias, strong field roots, good assortment to exchange for plants of Carnation Boston Market, Enchantress. H. W. Mann, Stoughton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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DRACAENAS

K. E. Juul, Ellizabeth, N. J.
Dracaena indivisa.

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Anton Schultheis, College Point, N. Y.
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Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

FERNS

Baur Floral Co., Erie, Pa.
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A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitman.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
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Boston and Scottii Ferns.
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FICUS

Baur Floral Co., Erie, Pa.
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Floral Photographs. Foley's 226-228-1-2 Bowery, New York.

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Decorative Evergreens.

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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.

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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

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Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.

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J. Bretmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.

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Gude Bros. Co., 1214 F St., Washington, D. C.

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Samuel Murray, 1017 Broadway, Kansas City, Mo.

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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.

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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.

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William J. Smyth, Michigan Ave and 31st St., Chicago.

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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.

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Thos. F. Galvin, 124 Tremont St., Boston.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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David Clarke's Sons, 2139-2141 Broadway, New York.

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W. H. Donohoe, 2 W. 29th St., New York.
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Wm. H. Rock Flower Co., Kansas City, Mo.
Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.

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A. H. Hews & Co., Cambridge, Mass.
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GALAX

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

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Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

GERANIUMS

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A. G. Lake, Wellesley Hills, Mass.
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R. Engelman & Son, Pittsfield, Mass.

Geraniums—Jean Viaud, 4 in., \$6.00 per 100; Mme Sallerol, 2 in., \$2.50 per 100. William Doel, Pascoag, R. I.

Geraniums from 3 1/2 in. pots, S. A. Nutt, Jean Viaud, Le Ceuille, Thos. Mehan, \$7.00 per 100. H. W. Mann, Stoughton, Mass.

Geraniums true for stock—2 1/4 in. Ricard, Poitevine, Viaud, M. Bruant, Gaar, Bismarck, 2 1/2-c.; Doyle, Telegraph, La Favorite, Hill, New Life, Nutt, Dbl. Grant, 2c. Cash please. Roney Bros., West Grove, Pa.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

GLASS

Boston Plate & Window Glass Co., Boston.
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GLASS, High Grade, Double Thick Greenhouse Glass. Lord & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.
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King Construction Co., N. Tonawanda, N. Y.
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D. Iliffe, 49 Washington St., Boston.
Piping and Construction.
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Weathered Co., Box 789, New York.

Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.

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Crowl Fern Co., Millington, Mass.
Fancy and Dagger Ferns.

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The Kervan Co., 20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

Fancy Ferns.
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E. A. Beaven, Evergreen, Ala.
Fadeless Sheet Moss.

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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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In writing to Advertisers kindly mention Horticulture

HEATING APPARATUS

- Lord & Burnham Co.,
1133 Broadway, New York.
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- Pierson U-Bar Co., 1 Madison Sq., N. Y.
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- Hitchings & Co., 1170 Broadway, N. Y.
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- Kroeschell Bros., 35 Erie St., Chicago.
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- W. W. Castle, 170 Summer St., Boston.
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- Johnston Heating Co., 1133 Broadway, N. Y.

HORSES

Useful work-horses for florists' spring work; also florists' delivery wagons, good as new. Edward Higgins, 1 West 28th St., New York.

HOT-BED SASH

- The A. T. Stearns Lumber Co., Neponset, Mass.
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- Pierson U-Bar Co., 1 Madison Sq., N. Y.
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- Hitchings & Co., 1170 Broadway, N. Y.
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HOT WATER CIRCULATOR

- W. W. Castle, 170 Summer St., Boston.
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HYDRANGEAS.

- John C. Hatcher, Amsterdam, N. Y.
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- The F. E. Conline Nursery Co., Stratford, Conn.
Blue Otaksa Hydrangea.

INSECTICIDES.

- Nicotide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Louisville, Ky.
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JAPANESE LILIES.

- Yokohama Nursery Co., 31 Barclay St., New York.
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KENTIAS

- A. Leuthy & Co., Roslindale, Mass.
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LAWN AND CEMETERY VASES

- Kramer Bros. Foundry Co., Dayton, Ohio.
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- Clippier Lawn Mower Co., Dixon, Ill.
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- Alex. McConnell, New York.
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- Thomas Young, Jr., New York.
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- Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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- J. Breitmeyer's Sons, Detroit, Mich.
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- George H. Cooke, Washington, D. C.
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- Samuel Murray, 1017 Broadway, Kansas City, Mo.
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- Gude Bros. Co., 1214 F St., Washington, D. C.
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- Young & Nugent, 42 W. 28th St., N. Y.
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- Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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- P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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- Park Floral Co., Denver, Colo.
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- Thos. F. Galvin, 124 Tremont St., Boston.
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- Atlanta Floral Co., Atlanta, Ga.
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- Jacob Schulz, 644 4th Ave., Louisville, Ky.
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- David Clarke's Sons, 2139-2141 Broadway, New York.
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- W. H. Donohoe, 2 W. 29th St., New York.
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- Wm. H. Rock Flower Co., Kansas City, Mo.
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- Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LIVISTONIAS

- Livistonia Rotundifolia. Well leaved and clean, \$6, \$9, \$12 per doz. J. Roehrs Co., Rutherford, N. J.

LOBELIAS

- LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

- F. O. Pierce Co., 170 Fulton St., New York.
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MISCELLANEOUS PLANTS.

- | | |
|--|---------|
| | Per 100 |
| 200 3 1-2 in. pots Rose Geraniums.. | 7.00 |
| 2000 8 12 in. pots Geraniums..... | 7.00 |
| 2000 2 1-4 in. pots Glechoma and German Ivy | 2.00 |
| 25,000 strong transplanted Asters, leading sorts, 75c. per 100, \$6.00 per 1000. | |
| 200 Venia Variegated, 3 1/2 in..... | 6.00 |
| 500 Alternanthera Brilliant, 2 1/2 in.. | 2.00 |
| Cohanzie Carnation Greenhouses, New London, Conn. | |

MOON VINES

- Godfrey Aschmann, 1012 Ontario St., Phila.
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MOSCHOSMAS

- Moschosma riparium, a valuable new Christmas flowering plant. Write for descriptive circular and price list. Chas. H. Totty, Madison, N. J.

NIKOTEEEN APHIS PUNK.

- Nicotine Mfg. Co., St. Louis, Mo.
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NURSERY STOCK

- John Waterer & Sons, Ltd., American Nursery, Bagshot, England.
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- Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.
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- The Conard & Jones Co., West Grove, Pa.
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- The F. E. Conline Nursery Co., Stratford, Conn.
- The Wm. H. Moon Co., Morrisville, Pa.
American Arborvitae.
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- Oak Hill Nurseries, 114 Poplar St., Roslindale, Mass.
Berberis Thunbergii.
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- New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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- Nursery Stock. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

ORCHID PLANTS

- Lager & Hurrell, Summit, N. J.
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- Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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- Selbrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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- Jos. A. Manda, 191 Valley Road, W. Orange, N. J.
Orchids, Orchid Baskets, Peat.
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- Anton Schultheiss, College Point, N. Y.
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PAINT AND PUTTY

- PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PATENTS

- Siggers & Siggers, Washington, D. C.
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PEONIES

- Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

PIPE AND FITTINGS

- PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

- The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

- Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

- Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

RAFFIA

- Raffia, prime long fiber, sound and strong, ten cents the pound, nine dollars the hundred pounds; terms cash. A. Rolker & Sons, New York. P. O. Box 750.

RHODODENDRONS

- John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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- McHutchison & Co., 17 Murray St., N. Y.
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Hardy Roses, H. T. Roses and Ramblers.
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- The Conard & Jones Co., West Grove, Pa.
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- Thomas Roland, Nahant, Mass.
Lady Gay Roses.
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- John C. Hatcher, Amsterdam, N. Y.
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Grafted Brides and Maids on English
Manetti.

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American Beauty Plants.

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A. N. Pierson, Cromwell, Conn.

P. R. Quinlan, Syracuse, N. Y.

Low-budded roses, No. 1, \$95.00; No.
1-2, \$65.00 1000. H. T. Jones, Elizabeth,
N. J.

Roses, Bride, Bridesmaid, Ivory, 2 1-2 in.,
shifted from 2 in., \$3.00 per 100; \$25.00
per 1000. Wm. B. Sands, Lake Roland,
Md.

Baby Rambler roses, fine dormant stock,
one year, \$12 per 100, 2 1-4 in. pot plants,
extra well rooted, \$4 per 100, \$30 per M.
Orders booked for delivery now or any
time up to late spring. Samples free.
Brown Brothers Company, Rochester, N. Y.

SEEDS

T. J. Grey & Co., 32 So. Market St.,
Boston, Mass.

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Joseph Breck & Sons

51 and 52 N. Market St., Boston, Mass.

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J. M. Thorburn & Co., 33 Barclay St., N. Y.

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A. T. Boddington, 342 W. 14th St., N. Y.

Challenge Pansy Seed.

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H. F. Michell Co., 1017 Market St., Phila.
Pansy, Cineraria, Primula Seeds.

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Aster Seed.

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Hjalmar Hartmann & Co.,

12 Stormgade, Copenhagen, Denmark.

Cauliflower and Cabbage Seed.

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Rickards Bros., 37 E. 19th St., New York.

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Johnson Seed Co., 217 Market St., Phila.
Kingly Prize-Winner Pansies.

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Boston.

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Augustus Zirngiebel, Needham, Mass.

Giant Pansies.

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New stock of Spiraea arguta and Thun-
bergii, \$1.00 per ounce; trade packet by
mail, 25c. T. N. Hadden, 270 Dudley St.,
Roxbury, Mass.

I sell only reliable flower seeds. Ask
for wholesale catalogue. O. V. Zangen,
Hoboken, N. J.

Surplus Garden Peas—50 bu. Alaska,
\$3.25 per bu.; 40 bu. First and Best, \$2.00
per bu. New crop northern Michigan
grown; none better. W. F. Allen, Salis-
bury, Md.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Mar-
ket St., Boston.

Pulverized Sheep Manure.

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SHEET MOSS

E. A. Beaven, Evergreen, Ala.

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SMALL FRUIT PLANTS

Dewberry plants, Lucretia and Austin,
\$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00
per 1000, \$25.00 per 5000; Turner red rasp-
berry plants, \$6.00 per 1000, \$25.00 per
5000. W. F. Allen, Salisbury, Md.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales,
\$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash.
H. R. Akers, Chatsworth, N. J.

SPIREA

Spiraea, extra fine clumps in leading va-
riety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hippard, Youngstown, O.

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STRAWBERRY PLANTS

Strawberry plants, 90 best varieties,
stock unexcelled. Ask for prices on what
you want. W. F. Allen, Salisbury, Md.

VEGETABLE PLANTS

50,000 large 4-year old Barrs Mammoth
Asparagus roots, \$6.00 per 1000; \$25.00 per
5000. (500 will fill a sugar barrel.) Ad-
dress W. F. Allen, Salisbury, Md.

We can furnish Strawberry plants and
Asparagus roots from April first to Decem-
ber first. Spring prices hold until August
first. Hitchcock's Nursery, Agawam,
Mass.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.

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Hitchings & Co., 1170 Broadway, N. Y.

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Foley Mfg. Co., 471 W. 22nd St., Chicago.

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Weathered Co., 46-48 Marlon St., N. Y.

J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

The Chicago Lifter.

VENTILATING MACHINERY, New
Model encased, self-oiling gear; Standard
Model Open Gear. Lord & Burnham, 1133
Broadway, N. Y.

WILD SMILAX

E. A. Beaven, Evergreen, Ala.

Southern Smilax.

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WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.

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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

William E. Heischer's Wire Works, 88-90
Broadway, Detroit, Mich.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
Cincinnati, O.

All standard frames in stock. Special de-
signs made to order in hurry-up time. N.
F. McCarthy & Co., 84 Hawley St., Bos-
ton, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for
price. Helm Carnation Support Co., Con-
nersville, Ind.

WHOLESALE FLORISTS**Boston**

N. F. McCarthy & Co., 84 Hawley St.,
Boston.

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and 9 Chapman Pl., Boston.

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Poehlmann Bros. Co., 35 Randolph St.,
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Detroit

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The S. S. Pennock-Meehan Co., 1608-18
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Edward Reid, 1526 Ranstead St., Phila-
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Pittsburg

J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.

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New Offers in This Issue.

AUCTION TRADE SALE: RUSTIC HANGING BASKETS.

Wm. Elliott & Sons, 201 Fulton St., New York.
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AZALEAS.

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CATTLEYA SCHROEDERAE.

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John Scott, Rutland Rd. and E. 45th St., Brooklyn, N. Y.
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VICK'S SUPERB PANSY SEED.

Jas. Vick's Sons, Rochester, N. Y.
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HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items:

BUFFALO, N. Y.—E. C. Brucker, 385-87 Ellcott St.

COLUMBUS, OHIO—M. B. Faxon, 246 Oak St.

CINCINNATI, OHIO—Frank W. Ball, 31 East 3d St.

DETROIT, MICH.—Frank Danzer, 1487 15th St.

INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.

NEWPORT, R. I.—David McIntosh, Ledge Road.

PHILADELPHIA, PA.—George C. Watson, Dobson Bldg., 9th and Market Sts.

PITTSBURG, PA.—James Hutchinson, corner Dunmoyle and S. Negley Aves.

PROVIDENCE, R. I.—Eugene Appleton, 234 Broadway.

ST. PAUL and MINNEAPOLIS—John A. May, 163 Iglehart St., St. Paul Minn.

TOLEDO, OHIO—J. L. Schiller, 929 Prouty Ave.

"Nothing except the mint can make money without advertising."—GLADSTONE.

Niagara Falls, N. Y., June 17, 1907.
HORTICULTURE Publishing Co.,

Gentlemen:—Please discontinue our adv. immediately, as we are being swamped with applicants, both in person and by letter, and we have secured a good man.

Thanking you for your courtesy and promptness, and assuring you of our future patronage, we remain,

Very truly yours,
E. A. BUTLER & SON.

Gentlemen:—Kindly discontinue my advertisements of Hanging Baskets as I am way behind on orders.

Respectfully,
F. W. BALL.

Cincinnati, Feb. 18, 1907.

Please discontinue my ads. for now. Will have some more stock to offer and shall be glad to send my ad. to HORTICULTURE.

JOHN STAMM.

Hutchinson, Kan., Mar. 18, 1907.

Please discontinue my geranium ad. I have so many inquiries for plants and I am sold out of the small sizes I advertised.

WM. DOEL.

Pascoag, R. I., April 13, 1907.

Take out the geraniums and salvias from my advertisement. Through this advertisement in HORTICULTURE I have disposed of my surplus stock of both.

R. L. GOINSALVOS.

Waltham, Mass., April 27, 1907.

Would say and glad to say that I am sold out of my pansy stock. Thanking you very kindly for the immense business your paper has alone favored us with,

Yours truly,

WM. DOBBERTIN.

Rochester, N. Y., April 29, 1907.

You will please not repeat our large advertisement of last week, as the goods we offered have all been sold. Over \$500 worth of direct sales from one offer pays us well, as in fact all our advertising in HORTICULTURE does.

A. H. HEWS & CO., Inc.

Cambridge, Mass., April 25, 1907.

"When you pay more for the rent of your business house than for advertising your business, you are pursuing a false policy."—FRANKLIN.

If you want to do business Advertise in Horticulture.



BETWEEN YOU AND ME, What do you think of the Buyer's Directory and Ready Reference Guide of HORTICULTURE? I always look it over before I do any buying.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

HORTICULTURE needs a wide-awake representative in every town in the land. Good commissions paid on advertising and subscriptions. If you are ambitious, write for terms.

SITUATIONS WANTED

SITUATION WANTED

As working foreman or head gardener. Age 38; married. Best of reference. New England preferred. H. W., care HORTICULTURE.

GARDENER wishes position on gentleman's place as head; competent in all branches of gardening, landscape work and improvements; care of live stock; capable of taking full charge; age 39; married, two children, eight and eleven years; best of references. Address Gardener, box 137, Springfield, N. J.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED as foreman of good place. Twenty years all-round experience with cut flowers, vegetables, pot plants and nursery stock. Good worker. Good wages and good treatment expected. Good references. State wages in first letter. Address, Box 82, Millbrook, N. Y.

FOR SALE

FOR SALE—45 H. P. Boiler, built two years ago. No reasonable offer refused. A. H. Westhaver, 11 Huntley St., Malden, Mass.

A DESIRABLE GIFT FOR YOUR EMPLOYEE.

There can be no more useful and appropriate present than a subscription to HORTICULTURE. The more he reads HORTICULTURE the better service he will render you. If you want to give five or more we will be glad to make a special discount, on application.

Other Useful Books.

The Horticulturist's Rule-Book. Bailey. Price, 75 cents.

Chrysanthemum Manual. Smith. Price, 40 cents.

The Chrysanthemum. Herrington. Price, 50 cents.

How to Make Money Growing Violets. Saltford. Price, 25 cents.

Dwarf Fruit Trees. Waugh. Price, 50 cents.

The American Carnation. C. W. Ward. Price, \$3.50.

The Dahlia. By L. K. Peacock. Price, 30 cents.

The First County Park System. F. W. Kelsey. Price, \$1.25.

Manual of the Trees of North America. C. S. Sargent. Price, \$6.00.

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PUBLICATIONS RECEIVED.

Number 2 of the Southern Florist, published at Poulan, Ga., has appeared. We extend greetings to our young contemporary and best wishes for its success. It has a large and needy field which, when plowed, harrowed and seeded, should yield a bountiful harvest to the patient and persistent toiler.

The Blossom End Rot of Tomatoes is the subject of Technical Bulletin No. 3, of the Massachusetts Agricultural Experiment Station, prepared by Elizabeth H. Smith, M. S. The bulletin gives the results of investigations pertaining to the cause of the so-called "Blossom End Rot" together with a discussion of results obtained by other investigators.

Bulletin No. 202 of the N. J. Agricultural Experiment Stations treats on the Forest Trees of New Jersey, Byron D. Halstead being the author. It gives a very complete botanical and popular description of the trees indigenous to the State, with numerous engravings, also a list of forestry papers published in State reports and a copy of the Forestry laws.

Forty-ninth Annual Report of the State Horticultural Society of Missouri. Issued by that hustling secretary and polished gentleman L. A. Goodman, and contains full records of the meetings at Moberly, June 12, 13, 14; Boonville, December 4, 5, 6, 1906. On reading the very complete records of the papers, discussions and other proceedings one cannot but recognize that the members of this prosperous society have a glorious time when they get together—plenty of business, but a liberal intermixture of social enjoyment and entertainment as well.

Bulletin No. 4 of the American Association of Park Superintendents has been issued. The contents are papers on Roads, Drives and Parks and Their Construction, by J. F. Foster, superintendent of South Park System, Chicago, John C. Olmsted, C. E. Putnam and J. A. Pettigrew, Boston, Theo. Wirth, Minneapolis, and John Dunbar, Rochester, N. Y.; Evergreens for Parks by John Dunbar, Prof. Cowell, Buffalo, F. Shonnard, Yonkers, N. Y.; Fertilizers by several contributors. The out-door gardener will find it teeming full of valuable hints.

GREENHOUSES BUILDING AND CONTEMPLATED.

New.

Galesburg, Ill.—Leslie Mason, range of houses.

Additions.

Oneonta, N. Y.—John Strong, range of houses.

Denver, Colo.—Park Floral Co., three houses.

Spokane, Wash.—Spokane Nursery Co., two houses.

Syracuse, N. Y.—Gustav Bartholome, range of houses.

New Orleans, La.—Charles Eble, range of houses.

Elyria, O.—L. C. Hecock Floral Co., range of houses.

Valley Stream, N. Y.—John Weston, two houses, 28x200.

Wyomissing, Pa.—Frank D. Shearer, one house 29x100.

San Francisco, Cal.—C. C. Morse & Co., range of houses.

Chillicothe, Mo.—R. L. Isherwood, one carnation house 27x100.

Athol, Mass.—G. W. Sutherland, one chrysanthemum house, 17x100.

SOWING VEGETABLE SEEDS.

One great point to remember in supplying a house with vegetables is the importance of keeping up everything that can reasonably be expected to continue available throughout the season. For that reason very frequent sowings should be made. Lettuce is also an important necessity always, and there is no question but it is sometimes rather hard to have it in good condition, especially in very hot weather. A good method to pursue by-and-by would be to make sowings at intervals in flats much the same as is done for very early use, pricking them off in the same manner into other flats, and then when well established lifting them with as much soil as possible and planting them in the open ground.

WHY WE IMPORT APPLES.

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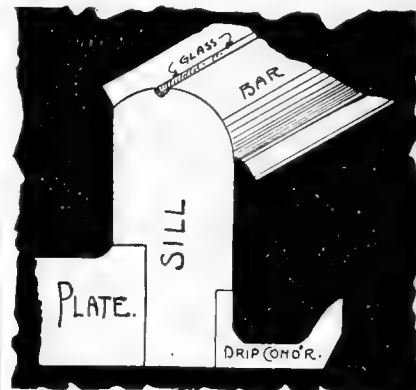


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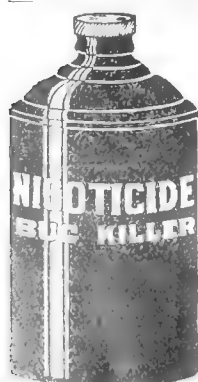
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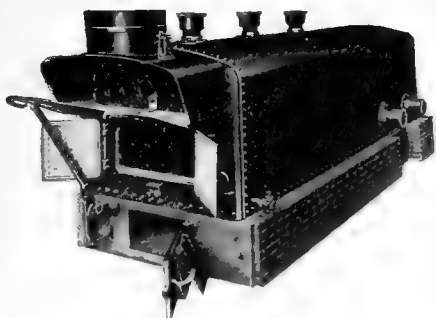
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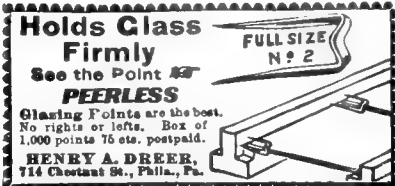
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HORTICULTURE

Vol. V. JUNE 29, 1907 No. 26



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Ornamental Hedges

What kind of a hedge shall I plant? This is a perplexing question that often confronts the suburbanite. In deciding it, too often the advice of the man-of-all-work is taken and his knowledge of artistic landscape gardening is far from being practical or in keeping with the surroundings. The results from plantings of this kind can be seen on all sides. In some localities a certain kind of hedge will be used exclusively, giving a set and far from artistic appearance. Often a tall-growing hedge will be perched on a terrace emphasizing the already high position.

Some 30 or 40 years ago the hedge was chiefly looked upon as a means of dividing property, little attention being given its attractiveness to surroundings. Rapidity of growth and cost were the chief consideration. The Osage orange, honey locust and buckthorn are examples of this type of hedging. At this period more thought is being given to variety in form and foliage, which is resulting in some exceptionally pretty effects. One very noticeable improvement has been made in that hedging is supplanting the varied unsightly styles of iron and picket fences, giving a more harmonious effect to the property in general.

EVERGREEN HEDGES

The suggestions may be made as to the best forms of the various kinds of plants available for hedging. They can be for convenience divided into the following classes: Evergreen, deciduous—tall and dwarf—flowering and perennial hedges. There is no doubt that the evergreen hedge is the most desirable form. It gains this distinction in that it is effective at all seasons. Many have been discouraged in using it as the results in the past have not been wholly successful. A very good lesson is to be learned from the cause of these failures. After an evergreen hedge has been planted, presuming that it has been given good soil and location, it demands careful attention at regular periods. Annual mulchings should be given in the fall and early summer a judicious pruning and thinning out of the under-growth of dead wood. How often the hedge is neglected after the planting, causing the plants to lose their lower branches and produce an unsightly appearance.

Ranking as the best in evergreen hedges may be mentioned hemlock and Norway spruce and American arbovitae. These trees are unquestionably the finest where a tall broad hedge is desired. Never plant an evergreen hedge where it will be subjected to continual shade. This has often been a costly experiment. The Japanese cedars such as *Retinospora plumosa*, *plumosa aurea* and *squarrosa* produce decidedly pretty effects though requiring very careful attention in the point of pruning and winter protection from heavy snows.

BROAD-LEAVED EVERGREEN AND DECIDUOUS HEDGES

In localities where broad-leaved evergreens flourish, quite a novel and pretty hedge can be had from the *Mahonia aquifolia* or, as it is commonly known, Oregon

Grape. Without question the California privet as the best tall hedge plant is at the present day the most popular known to the public. Though it has only been largely used for the past 15 or 20 years it has established itself as the most popular plant for this purpose. It is surprising how quickly it develops into a well-formed bushy hedge. Many people inquire as to the time to prune. The amount of growth made should govern the time to prune. Constant pruning encourages a thick, bushy hedge especially in the privet. The buckthorn, honey locust and Osage orange are commonly used as farm hedges and for this purpose are very good but not at all suited for decorative effects on small suburban places.

Of all dwarf deciduous hedge plants the Japanese barberry is by far the best. It thrives in almost any situation, doing well even in a partly shaded position, and in growing keeps a close neat habit not making pruning a necessity, except possibly once a season. The foliage too is particularly pretty and in the fall takes on a brilliant scarlet color. In the winter it is effective with its many bright red berries. The purple variety of barberry is another form of hedge that is well worth recommending and retains its purple foliage until late in autumn.

FLOWERING HEDGES

To those wishing flowering hedges there is a wide variety of kinds from which to choose. The most popular and well-known kinds are, the Rose of Sharon or althaea with its great variety of color in flowers, some of recent introduction being especially attractive, *Spiraea Van Houttei*, with its beautifully pendulous habit of growth and flowering, Burning Bush or *Pyrus japonica* coming early in the spring with its well-known crimson flowers, *Hydrangea paniculata grandiflora* with its grand fall display of flowers, *Spiraea Anthony Waterer* with its flat heads of flowers appearing all summer, and the dwarf *Deutzia gracilis* bearing its dainty, white flowers in May and at all times making a neat, compact hedge. All these are well-known and do well in ordinary locations. In addition to these there are several well worth mentioning. *Forsythia viridissima* brings a bright, cheerful show of flowers in early spring and flourishes in almost any location.

The lovers of roses can secure a very attractive effect with *Rosa rugosa*, intermingling the red and white flowered varieties. The foliage of these roses can be depended upon for a pretty effect at all periods, being immune from all insect attacks. The tamarisk is a most satisfactory plant for seashore hedging, the salt air having the effect of producing a strong growth. The delicate sprays of pink flowers are very pretty in contrast with the fern-like foliage.

Probably as well-known as any flowering plant for hedging are the hawthorns, especially the English kinds. The strong growth and attractive foliage coupled with

the good and varied forms of foliage make them all well liked. They are not used as extensively in this country as in England, and yet deserve particular mention. In addition to the English varieties, special note should be taken of the American scarlet hawthorn (*Crataegus coccinea*) and the Cockspur Thorn (*Crus-galli*).

HEDGES OF HERBACEOUS PERENNIALS

The hardy herbaceous perennials may be considered in this article as they have quite a bearing on the planning of formal gardens and borders. Probably the best for edging are the variegated-leaved Day Lily (*Funkia undulata variegata*), English Daisies (*Bellis perennis*), Candytuft (*Iberis semperflorens superba*), Scotch pinks (*Dianthus plumarius*) in variety, and Sea Thrift (*Armeria maritima*). In connection with these edging plants may also be mentioned the Phlox subulata in variety, and Cerastium tomentosum or, as it is commonly known, Snow in Summer.

The possibilities in variety in hedge plants are great and in addition to the plants already mentioned there are others that can be used effectively, depending on the surroundings and exact location.

Murray Chandler

Usefulness of the Late Tulips

(Continued from Page 810)

THE COTTAGE TULIPS

Amongst a number of species and varieties of the late May flowering or Cottage tulips, we have found the following the best. Lutea (Bouton d'Or) is a charming yellow late kind and it is excellent for bedding, coming into flower late in May. Tulipa Gesneriana is over 300 years in cultivation and we have no better kind yet. It is a handsome border plant; we have a clump in our garden which has not been disturbed for 20 years and it produces immensely large flowers annually. There are quite a number of varieties of this fine species, but the gem of them all is the variety spatulata which has very large flowers of brilliant carmine with blue black centres. It is excellent for bedding, the length of its stem and the graceful poise of its large brilliant flowers being very striking.

Golden Crown is an exceptional valuable variety we have grown for several years and it seems the longer we know it the better we like it. As a border plant and a bedder it hardly can be beaten. When the sun shines on its petals the bed is simply a mass of gold. Tulipa Greigi is a species and in my estimation is the showiest of all the tulips. It flowers early, end of April or early May. Its flowers are very large, intense scarlet color and has beautifully marked foliage.

May Blossom is a good late variety with long stems and the flowers are striped with bright rose. The variety Picotee (Maiden's Blush) is very distinct with excellent habit and very pleasing flowers, white mar-

Tulipa retroflexa is a species with light yellow flowers, the petals long and recurved, and it comes into bloom about the middle of May. Another species of striking distinctness is Tulipa Viridiflora. Its flowers are green margined with yellow, making a very pleasing combination of colors. There are many other species and varieties of late flowering tulips which might be added all of them being pleasing and interesting.

THE PARROTS

The origin of the Parrot tulip is very uncertain; some claim them to be species while others say they are mere varieties of some of the older species. Let that be as it may; for our purpose at the present time that is of no importance to us. They probably have the brightest colors and most curiously formed petals of all the tulips. The best varieties are Admiral of Constantinople, Feu Brilliant, Markgraaf, Monstre Rouge, and Perfecta.

We do not like the double tulips as well as the single kinds. They have valuable lasting qualities which recommend them as bedding plants. When the flowers are cut they last a very long time. La Candeur is a very good white, Rex Rubrorum is a fine scarlet, and La Blason is also a good white variety, Murillo is very pleasing, flowers bluish white shaded with rose. Tournesol, both scarlet and yellow, are good varieties.

LATE TULIPS NOT APPRECIATED AS THEY DESERVE

For gardens or any place where a fine display is expected to be kept up the value of these late tulips is unestimable. The Boston Public Garden is noted all over the country for its fine display of tulips. I made my way there a few evenings ago expecting to see a good showing of the late kinds as I knew the earlier ones were all gone some time ago, and was very much disappointed to find that there were no late kinds planted for some reason or other. Such places should be kept up with the march of progress in horticulture.

Any person who wishes to grow these late kinds for the first time, will, I know, be perfectly pleased with all the varieties I have mentioned. Today, June 12th, we have many of the above kinds in bloom. In ordinary seasons they are generally through blossoming about the end of May.

Robert Lammerson

Strawberries of Washington State

See Frontispiece.

Strawberries grown in the Sunnyside district, west of Spokane, Wash., are famed all over the Pacific Northwest for their flavor, color and form. The early crops this season, marketed in May and June, brought high prices, the demand exceeding the supply. Several growers realized as much as \$537 the acre. The berries are grown under irrigation, which is practiced in all lines of fruit culture in the district. Water is furnished by the Sunnyside canal system, built in 1891. It is 57 miles in length. It is owned by the government, which bought it for \$1,250,000, from the Washington Irrigation Company. It is fed from the Yakima river and waters 64,000 acres, 30,000 of which are under cultivation. The water rights are \$30 the acre with a maintenance charge of \$1 the year after the first season.

Ornamental Conifers

(Continued from Page 715)

JUNIPERUS

The hardy junipers are very useful trees for decoration on account of their compact pyramidal or pillar shape and varied shades of green, blue and yellow. There are a great number of species from the West down to Mexico, around the Mediterranean Sea and Central Asia that are not hardy in New England but the more northern part of our hemisphere furnishes us with good plants. The nomenclature of the junipers is greatly mixed up and some of them are found in cultivation under many names. I will try to give them as nearly correct as possible.

J. communis, the common juniper, the true type of which comes from Europe, in cultivation is a more or less large pillar-shaped tree. The needles are open and prickly. It is a compact tree of a light bluish-green color. There is a yellow form which grows more fan-shaped. The American form that is called *communis*, also, is by right *communis Canadensis*. It is a low spreading bush with the same foliage; the yellow form, *Can. aurea* is very useful to cover sunny banks. *J. c. fastigiata* or *hybernica*, the Irish juniper, grows to a tall, slender pillar, the branches pressed one against the other, and the leaves shorter than in the common one, and of darker green. *J. Suecica*, the Swedish juniper, is the same as the preceding only lighter green. *Hyb. compressa* is a diminutive of the Irish juniper; *nana* or *alpina* is a dwarf creeping form from the higher altitudes; *hemispherica* or *echinaeformis* grows to a dwarf small round prickly ball; *pendula* looks like the common European juniper with open top and pendulous branches. *Oblonga pendula* from the Caucasus mountains has its leaves more separated, thicker and not so pointed and its branches are pendulous. There is an unnamed form from China which has the growth of the Irish and the foliage of the common one. *Withmaniana* has the appearance of the common juniper, not quite so compact and the leaves fatter and less pointed.

J. rigida from Japan, where it represents the type of *communis*, has the branches spreading and the young shoots pendulous. The leaves are thin and long, very pointed and set more apart than in the common juniper. It is a nice little tree to isolate and looks quite different from the others.

All those named junipers which have their leaves open and awl-shaped belong to the *Oxycedrus* tribe. The others, *Sabinae*, have two kinds of leaves, scale-like, closely set along the shoots when growing and in some open when older; while the first ones are merely bushes among the others some are regular trees.

J. sabina, also called *cupressifolia*, is the true savin from central Europe; it grows to a bush, sometimes a little tree, with erect branches, thickly clothed with erect branchlets, both pointed at the tips, furnished with scale-like dark green foliage. The American form of it, *s. procumbens*, is a wide-creeping bush, very useful for covering rocks and banks. *J. s. tamariscifolia* is dwarfer than the type, more spreading and compact and of a glaucous color; *s. argentea variegata* is also dwarfer than the type, and has little white shoots mixed with the others; *s. prostrata* is another creeping form but shorter and more compact than *procumbens*.

J. virginiana is our red cedar which grows nearly all

over the United States. On account of the different climates and situations where it is found this is a tree which varies much in size and appearance; under cultivation it also varies greatly and many good forms have been raised from the seed beds. Some of the best are: *v. glauca*, very blue in growing time, changing to a grayish green in winter; *v. glauca pendula*, the same color, the young shoots pendulous; *v. dealbata* or *fragrans*, which is more of a grayish blue color and finer foliage; *v. elegans*, with young shoots yellow in color, of beautiful effect among conifers, unique in color; *v. Scottii*, very light green in color and the shoots more cord-like. There are a few which are yellow variegated; *v. Triomphe d'Angers* is the best as to color, but a slow grower; *v. pendula* is the most pendulous of all, with the shoots inverted; *v. Chamberlainii*, *v. Bedfordiana* and *v. viridis pendula* are erect in growth, with pendulous shoots; *v. tripartita* looks much as if it was a hybrid between *virginiana* and *sabina*, being similar in growth to the last named, with more horizontal branches and shoots.

J. Chinensis grows to a compact large pillar-shaped tree; the foliage is nearly all open and very pointed, except that on the top of the young shoots they are closed. It and its forms are good hardy trees and fine ornaments for the lawn. *Ch. aurea* has the same shape as the type, of a beautiful yellow color; in fact it is the best yellow conifer in cultivation, but wants to be shaded in winter as it is easily sun burnt. *Ch. stricta* and its variegated forms is a striking tree. It forms broad, very compact pyramids of a dark green color; all the shoots are erect and close one against the other, growing toward the center of the tree with rough open foliage. *Ch. Pfitzeriana* is a new form which originated in Germany, of a graceful fan-shaped pendulous outline, grayish green in color. *Ch. pendula* (if really a form of *Chinensis* which is doubtful) is a nice tree with long string-like pendulous shoots, branches well apart. *Ch. procumbens* and its white variegated form are good creeping shrubs to cover rocks and slopes; the foliage is very coarse and of compact growth.

J. Japonica is said to be a form of *Chinensis*; it is a dwarf, irregular-growing and spreading little tree. The green form is not much seen in cultivation. *J. aurea* has the shoots covered with scale-like adpressed little leaves of a nice yellow color; in dry situations it is subject to red spider. *J. aurea variegata* is somewhat dwarfed, of a nice healthy green color speckled with yellow.

J. Fortunei pyramidalis and *J. Neaboriensis* are both elongate pyramidal, symmetrical in form, very compact, of a dark green color. The first has the leaves more open than the other. Both make good plants for formal gardening.

J. occidentalis is a western tree which is found from Washington to Mexico. It varies much with its geographical distribution. It is an alpine tree; the most northern form is the only one about hardy in our country; in the south it is a straight erect tree of large size. A much smaller one has the leaves scale-like adpressed along the dull green shoots.

Am. Dr. Ham

HORTICULTURE

VOL. V

JUNE 29, 1907

NO. 26

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager

SUBSCRIPTION PRICE

One Year, in advance, \$1.00; To Foreign Countries, 2.00; To Canada, \$1.50

ADVERTISING RATES

Per Inch, 30 inches to page \$1.00.

Discounts on Contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.; three months (13 times) 10 per cent.;

six months (26 times) 20 per cent.; one year (52 times) 30 per cent.

Page and half page spaces, special rates on application.

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass. under the Act of Congress of March 3, 1879.

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tion. No doubt this is true. It is also true that no business affords wider scope for the exercise of the highest intellectual qualities; in fact, it demands such and a broad, thorough scientific education is one of the best qualifications a young man can bring to this as well as all other branches of horticultural industry. A thorough training on fundamental principles as given in the practical courses at the Massachusetts Agricultural College coupled with a broad knowledge of the markets, the resources and the commercial needs of the world, more especially of his own country, are among the almost indispensable requisites for the man who would make his mark in the seed trade of the future.

The thirst for novelty and sen-

"The Frivolous Work of Polished Idleness" is to be appeased, we are told, in the case of one Newport millionaire, by the construction of a series of revolving flower beds to be turned by electric motors at the rate of a revolution a minute, the intent as indicated in a newspaper account, being to "add to the conspicuousness of its owner." Doubtless this end will be gained all right but we fear that

"Nature, assuming a more lovely face
Borrowing a beauty from the works of grace,"

has scanty recognition in the aspirations and sentiments of the people responsible for this tawdry contraption. According to Loudon, landscape gardening can never rank very high in the scale of the fine arts. It certainly doesn't seem to be making much headway as a fine art in Newport if the above information is correct.

It is very encouraging and pleasing

To improve the quality of seeds to realize the facts as set forth by President Wood in his address to the American Seed Trade Association,

concerning the prosperous conditions prevailing in the seed business of America and the creditable reasons therefor. While, as Mr. Wood remarks, the great prosperity and remunerative prices of the past year may be attributed in part to short crops in some lines yet the increased demand consequent upon the high quality of our seed product has had much to do in developing the present auspicious conditions. Mr. Wood's advice to his fellow seedsmen and growers to do everything possible for the improvement of stock seeds and the production of the largest possible percentage of high grade quality is on sound and patriotic lines. As "the first source of all wealth" good seeds are indispensable and the question of the cost of their production is of secondary consideration as compared with high quality. It is to be hoped that the campaign to this end may be prosecuted on lines of harmonious co-operation between the national government and the seed trade.

The president of the American Seed Trade Association is authorized for the assertion that the seed business holds out inducements second to none for the young man choosing a life avoca-

WHOLESOME CHESTNUTS.

Peaches and nectarines are much prized. Large fruit of both these are much more satisfactory than small fruit. Thinning at one or more stages of their growth has a good deal to do with obtaining large peaches or nectarines. Moisture and the proper disposition of the young wood at this time of the year have also not a little to do with the same ultimate result. When trees require water they should have it in abundant quantity; dribbling is simply an inducement for failure; and when trees are fruiting heavily an occasional application of animal manure or guano water before each regular watering will aid them greatly. Syringing should be done persistently; the surfaces should be kept open and the soil sweet and mellow. Stop the shoots regularly and tie in carefully, avoiding the shading of the fruit as much as possible. There ought to be just enough young wood left to furnish the trees without crowding. One well placed young shoot from the bottom part of the present fruit-bearing shoots will generally be enough, but where the fruit bearing wood is very long, as may be in the case of young, vigorous trees, another shoot halfway between the bottom bud and the top of the shoot may be left.

Greenhouses on private places should always be kept in such a condition that it would be a pleasure to walk through them, so neat, clean and tidy should everything be, and furthermore, there should even in midsummer be something of interest in every house on the place. Do not get the notion in your head that wonderful artificial centre pieces are preferable to loosely and tastefully arranged flowers without iron and timber accompaniments.

PERSONAL.

H. G. Humphrey has taken a position with C. A. Rieman, Connerville, Ind.

E. W. Hampton of Springville, N. Y., was married on June 15 to Miss Lottie Churchill.

Ferdinand Beyer of Detroit and Miss Maud M. Warner of Wayne were married on June 12.

Visitors in Boston: Winfried Rolker, New York City; Mr. and Mrs. Jos. Heacock, Wyncote, Pa.

Mr. and Mrs. John Hanft of New York City started on June 13 for a three months' tour of the continent.

The wedding of Oglesby Paul of Philadelphia, and Miss Laura Little Wilson, took place at Trinity Church, Boston, on June 22.

J. E. Simpson, whose contributions on *Rose Growing Under Glass* to *HORTICULTURE* are proving so interesting, is now located at Clifton, N. J., with his uncle, Robert Simpson.

Col. W. W. Castle of Boston is in Cleveland this week attending the interment of his mother who died last winter and his sister Mrs. Rhoades whose death occurred three weeks later.

A BEAUTIFUL WAYSIDE FLOWER (RANUNCULUS AQUATILIS.)

The accompanying illustration, I venture to think, has a double interest. It shows a wayside pond simply smothered with the flowers of the water crowfoot,—a mass of white, and it also shows a remarkably fine specimen of clipped yew. It is not often that one sees such a fine example of the latter by the wayside; it is more than 100 years old, and, apparently, is growing in a hard gravel road. Doubtless however its roots have found the cool moist soil by the adjoining pond and this accounts for its excellent state of health in a most unlikely position.

The water ranunculus makes a delightful display when it is as rampant as shown in the picture and it would be quite a good plant for the water garden were it not for the fact that when established it spreads so rapidly

as to become a nuisance. However it might well be used to cover the surface of a pond or pool in the wilder part of the garden, where the desired effect is obtained when nature's designs are as closely followed as circumstances will allow. This ranunculus is a quaint and interesting plant. It grows wild in ponds, streams and ditches throughout all temperate regions and is abundant in Britain. It has an extraordinary habit of adapting itself to circumstances. There are two distinct sets of leaves: those that float on the surface are the ordinary rounded, lobed leaves characteristic of ranunculi while the lower leaves, in fact all those that are submerged are divided into many very fine segments, and are exactly like skeleton leaves, offering no resistance to the water. This ranunculus flowers throughout a long season. H. H. THOMAS.

FLOWER NOTES.

A beautiful combination in color and form is brought out by the use of branches of the red leaved Japan maple with cut blooms of the light pink peonies.

Peony blooms sometimes wilt badly after having been cut and are revived with difficulty. This can be avoided by plunging the stems deep in cold water directly after cutting instead of carrying them around and waiting until a quantity has been gathered.

The custom of scattering flowers over the table cloth at banquets, etc., is often abused by the use of material which wilts quickly when out of water. Many dining tables for this reason present a very unattractive and slovenly appearance before the affair is half over.

THE GLORIOUS FOURTH.

Correspondents and advertisers please take notice that as July 4 falls on Thursday our regular publication day, *HORTICULTURE* will go to press one day earlier next week. Send copy to reach us in time, accordingly.

HORTICULTURE IN ALASKA.

J. G. Johnston, of Bear Lake, near Seward, Alaska, is a bona fide farmer who is making a success. He took up a homestead two years ago and is now comfortably settled. He will soon have sixty acres under plow and in pasture. He reports that his radishes, lettuce, carrots, beets, rhubarb and potatoes did as well as those he had grown on Puget Sound. Strawberries did very well as did the blackberries, currants, gooseberries, and raspberries did nicely. Mr. Johnston finds that rose bushes, lilacs and English ivy grow well. He is also having considerable success with poultry.

Experiments are being made to develop varieties of strawberries and raspberries adapted to the Alaskan climate by cross fertilizing cultivated varieties with wild native species. The work is new and there has not yet been time enough to produce results.

The Houghton Horticultural Society, Lynn, Mass., will hold a flower show on June 29.

NEWS OF THE CLUBS AND SOCIETIES

MASSACHUSETTS HORTICULTURAL SOCIETY.

Peony Exhibition.

Peonies had their innings at Horticultural Hall, Boston, on June 22 and 23, but the date was just a day or two too early for a show of any great magnitude and the general displays of other hardy herbaceous material quite overshadowed the peonies. Fine peony collections of greater or less extent were contributed by Mrs. Jack Gardner, Blue Hill Nurseries, William Whitman, E. L. Lewis, R. and J. Farquhar & Co., J. L. Blanchard, Mrs. E. M. Gill, George Hollis and E. J. Shaylor. George Hollis was strong on singles and Mr. Shaylor's display comprised a very interesting collection of named sorts. The tables of hardy perennial flowers were resplendent with irises, oriental poppies, dianthus, pyrethrums and such early summer border bloomers contributed by Blue Hill Nurseries, F. J. Rea, R. & J. Farquhar & Co., John R. Clarke & Co., and others. As usual the display by Blue Hill Nurseries had double value from its elaborate labeling, the botanical name, common name, native home, height, etc., being given on a neat card with every variety shown. The pyrethrums from William Whitman were elegant. J. R. Clarke made the first display of sweet williams for the season, and W. Heustis made an excellent showing of Scotch roses. Peirce Bros. staged a seedling tomato of good promise.

Wm. Nicholson showed two vases of Lady Leonora Bramwell.

TARRYTOWN HORTICULTURAL SOCIETY.

The annual June show of this society was held on June 18. Roses and strawberries which are generally the principal feature at this time were very scarce. Cut flowers, ferns, shrubs and perennials were numerous and of excellent quality, while the vegetable exhibits surpassed those of any previous June exhibition. The F. R. Pierson Co. had a fine display of plants and cut flowers, notable among the latter being a collection of peonies. This was awarded a certificate of merit. Scott Bros. showed an assortment of hybrid rhododendrons in pots. Prizes were awarded to George Wittlinger, gardener to Miss Potter, for sweet peas; W. H. Waite, gardener to Samuel Untermyer, for shrubs; Wm. Grierson, for perennials; George Middleton, for strawberries; Howard Nichols, gardener to Mrs. J. B. Trevor, and John Elliott for vegetables. Special prizes were awarded for perennials to J. W. Smith, W. H. Waite, F. Gibson; for roses to John Woodcock; for greenhouse fruits to George Middleton, George Wittlinger, D. McFarlane; for grapes and table of decorative plants to Robert Angus.

On account of the late season for roses the judges did not award the J. H. Trey cup for out-door roses. Notwithstanding the fact that the door receipts were donated to the new hospital fund the attendance was very slim.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The executive committee for the annual exhibition of the C. S. A. to be held in the American Institute, New York City, on November 6, 7 and 8, consisting of A. Herrington, C. H. Totty and W. Duckham, met at the Institute on Wednesday, June 12, with A. Herrington as chairman, and final arrangements were completed.

Dr. Hexamer informed the committee that all efforts to secure larger accommodations had proved unsuccessful, consequently it was decided to make it exclusively a chrysanthemum show, thereby securing room for the exhibits in the hall of the Institute. The president, A. J. Loveless, presented a premium list which includes four silver cups, gold, silver and bronze medals and many good cash prizes, and many valuable prizes are offered by the Institute, which should bring spirited competition and insure a good show. It was found necessary to make some slight changes in the schedule as previously published in order to avoid a duplication of classes and also to make it possible for every grower of chrysanthemums to participate in the competition. The exhibition promises to be the largest in the history of the society, and everything points to a successful meeting.

The schedule is now in the hands of the printer and will be mailed to members in due course. All interested exhibitors can obtain them by applying to the secretary.

SPECIAL PREMIUM LIST.

Class A—C. S. A. silver cup, 10 blooms any variety, long stems.

Class B—The F. R. Pierson Co. silver cup, 10 blooms each white, yellow, pink, long stems.

Class C—Special silver cup, 12 blooms Miss Clay Frick, long stems.

Class D—J. C. Vaughan silver cup, specimen bush plant, any variety. Open to private gardeners only.

Class E—W. Wells & Co. gold, silver and bronze medals, 6 blooms Miss Miriam Hanky, long stems.

Class F—E. G. Hill, 1st, \$10; 2nd, \$5, 12 blooms Pres. Loubet; \$10 for 10 blooms Mme. Armand Detroyat.

Class G—Henry A. Dreer, 1st, \$10; 2nd, \$5; 24 blooms, 6 varieties, 4 blooms in a vase, 24 inch stems.

Class H—Stumpff & Walter Co. \$10; three blooms Morton F. Plant, 24 inch stems.

Class I—J. M. Thorburn & Co. \$10; 12 blooms, 4 varieties, three blooms in a vase, 24 inch stems. Open to private gardeners only.

Class K—A. T. Boddington, 1st, \$10; 2nd, \$5; 10 blooms Beatrice May, long stems.

Class L—Chas. H. Totty, 1st, \$15; 2nd, \$10; 12 blooms, 12 varieties, 12 inch stems, introductions of 1907.

Class M—Nathan Smith & Son, 1st, \$15; 2nd, \$10, 6 blooms seedlings or sport of American origin, commercial scale.

Class N—Special premium, \$5 each, for largest bloom white, yellow, pink, or any other color.

Peter Henderson & Co. \$25, to the private gardener winning the greatest number of points, to be determined as follows: Any first prize to count 10; any second prize to count 5; any third prize to count 3.

DAVID FRASER.

At the meeting of the New Haven Horticultural Society on June 18 President Ferrier presented Robert Pryde with a set of resolutions commending the excellent services which he rendered the society while president. A smoker followed.

PENNSYLVANIA HORTICULTURAL SOCIETY.

Peony Exhibition.

A two-day exhibition of peonies and roses was held on the 20th and 21st inst. There was also a notable exhibition of hardy perennials, the feature of same being the collection shown by Clement Newbold, Mr. Logan, superintendent, which for variety and novelty was a revelation. Among the features of this display were Chrysanthemums James Kelway, a deep maroon single flower, and Evening Star, a bright yellow, both shown here for the first time. James W. Paul and Jno. W. Pepper also had good collections of hardy perennials on exhibition. In peonies Henry A. Dreer took the lead with a well-grown and correctly named collection of some fifty varieties. Frank Gould from Morris's showed only in a limited way this year, owing to a misunderstanding of the schedule.

No Names and Wrong Names.

The Andorra Nurseries showed some good flowers but this exhibit was marred by being unnamed, and as such had but little horticultural value. The Griscom and Weightman collections of peonies had the names affixed, but we regret to say some were inexcusably incorrect in many instances. Absolution may be pleaded on account of the confusion in peony nomenclature but when a pink variety is labelled *Festiva maxima* or a fluffy white shown as *Golden Harvest* it is time to put the onus where it belongs. We have named names before on this same subject and are glad to say those we named in former years show a marked improvement. Jno. Hedland, gardener to Mrs. W. L. Elkins took first on peonies in class 8, with a well-grown assortment. The rose show was not of much account either in quality or variety. Samuel Hammond, gardener for Rudolph Ellis, showed some good sweet peas and a nice lot of lettuce. A. B. Cartledge, W. Graham and C. Eisele acted as judges.

NORTH SHORE HORTICULTURAL SOCIETY.

At the last meeting exhibits were made by Eric Wetterlow of cut blooms of gloxinias arranged with maiden-hair fern; Jas. McGregor, German and Spanish iris; William Till, perennial lupins; James Scott, rhododendrons, *Xanthorrhiza sorbifolia* and St. Brigid Anemones. At the meeting on July 5 President McGregor will speak on roses and rose culture.

CLUB AND SOCIETY NOTES.

June 27 and 28 are the dates set for the rose and peony show of the Amateur Horticultural Society of Springfield, Mass.

The American Civic Association will hold their annual meeting in conjunction with the National Municipal League at Providence, R. I., in the week beginning November 17.

At the last meeting of the Chicago Florists' Club it was voted to accept the invitation of August Poehlmann to hold the picnic at Morton Grove. A committee was appointed to take charge of the matter.

AMERICAN SEED TRADE ASSOCIATION

The twenty-fifth anniversary meeting of this organization was opened at the Hotel Astor, New York City, on Tuesday, June 25, under auspicious skies and weather that would induce germination in any seed with a spark of life left, and the hundred or more members in attendance were in a most happy frame of mind when, at 10.30 A. M., alderman McGowan, acting mayor of the City of New York, took the platform and in a few eloquent words expressed the delight he felt at the presence in the great metropolis of such an organization as the American Seed Trade Association to celebrate its silver jubilee. He referred to the influence of the seedsmen in conserving the health, wealth and prosperity of the country and hoped that the sociability and interchange of ideas encouraged by this meeting might mark the opening of an era of new ideas and uninterrupted prosperity for the visitors. Chas. P. Braslan responded briefly on behalf of the Society and then President Henry W. Wood proceeded to read his address as follows, which was received with appreciative applause.

THE PRESIDENT'S ADDRESS.

After a few preliminary remarks about the 25th anniversary of the formation of the American Seed Trade Association, president Wood said:

I wish to congratulate the seed trade upon the generally prosperous condition which seems to prevail all over this country. I do not believe that the seed trade as a whole has ever experienced a more prosperous season than the one we have just gone through. I see nothing in the future to mar the outlook for a continuance of that prosperity. Our truckers, farmers and other producers are getting good prices for their products; the population of this country is increasing rapidly, and the present indications are that we are bound to have an increased demand for all products for several years to come. The continued high prices on some lines of seeds have no doubt surprised dealers in these particular lines. This applies particularly in field seeds to clover seed, alfalfa, cow peas, soja beans and other similar forage crops. The high prices, while primarily due to short crops, cannot be altogether attributed to this, but are quite largely due to the increased demand which exists all over the country for these seeds.

The superiority of nearly all varieties of American-grown seeds is coming to be more generally recognized than ever before. American-grown grass and clover seeds of high qualities always command a premium over seeds grown elsewhere, and the fact that European growers who grow vegetable seeds in large quantities secure American-grown seeds for their seed stocks proves conclusively the superior quality of seeds produced in this country.

In view of the fact that the question of the revision of the tariff is likely to be a very live issue in American politics in the near future, I would suggest that the Committee on Customs

and Tariff give this question their most serious consideration, so that, in case the question is brought up in Congress, they can be prepared to make intelligent recommendations as to what seeds should be free and what seeds should be dutiable, for the guidance of Congress in any revision of the tariff that may be proposed. Seeds that can be procured to advantage in this country, whether garden or farm seeds, should receive some measure of protection against the cheap European labor used in the production of seeds on the Continent, and seeds which cannot be grown to advantage in this country should come in duty-free, so as to avoid, as far as possible, putting any unnecessary tax upon the seedsmen, farmers and gardeners here. Efforts should also be made, in case the question does come up, to have specific duties of so much per pound or per 100 lbs. put on, instead of the ad valorem duties, as under the present laws, which, owing to differences in valuations, have caused so much trouble to the seedsmen.

I am not by any means an advocate of cheap seeds. I am always an advocate of seeds of superior quality, and anything that we can do to increase and encourage the production and dissemination of superior quality seeds, should receive the most careful consideration of the seed trade. I think it is a well-recognized fact, that the prices at which a great many vegetable seeds are sold at the present time are too low, and that there should be material advances in a great many lines, in order to avoid the deterioration in quality which is bound to result from low prices and too much competition from the producer's standpoint. The aim of every one engaged in the seed trade should be for improvement in quality of product. The price of seeds cuts a very small figure when you consider the crops produced therefrom, and that farmers and gardeners are willing to pay good prices for first-class seeds is unquestioned. Another point that cannot be too strongly impressed upon seedsmen—particularly those handling vegetable and flower seeds—is the improvement of stocks, and the attention that should be paid to the production of superior and high-grade stock seeds from which their main crops are to be grown. This is a most important matter, and seedsmen should always be willing to pay well for the production of high-grade stock seeds. The true sphere of the seedsmen's trial and seed farms should be in the producing of superior stock seeds to furnish growers, from which to grow the main supplies of seeds handled by the seedsmen.

Another matter, which should receive the most earnest attention of the dealers in field seeds, is in regard to a system of selling seeds according to the percentages of germination and purity. A great many of the wholesale dealers in field seeds, grass, clovers, millets, etc., at the present time do not make any particular analysis for impurities or adulteration, nor test for germination the seeds which they sell, but buy and sell simply on a commercial basis, from the appearance of the quality of the seeds only. I am a firm believer

in the fact that we ought to have as little legislation for the regulation of the seed business as is consistent with the protection of the interests of both the seedsmen and the farmers and gardeners. The less of legislation we have, the better, and the best way to avoid legislation is for the seedsmen to do business on sound business principles; and the selling of grass, clover and field seeds on a basis of the actual percentages of germination and purity is a step forward which would be of great benefit to the seed trade all over this country.

There have been several bills introduced in the various legislatures during the past year, for the regulation of the seed business, and particularly stringent bills were introduced in Iowa and North Dakota, and there was also a bill introduced in the National Congress at Washington, which would have worked a serious hardship on the seed trade if it had been passed in the shape proposed. In view of this agitation, I would recommend that the Committee on Seed Legislation take under consideration very seriously the question of whether it is desirable or not to draft some bill covering the question of the sales of seed, which could be submitted as a satisfactory bill in case any legislation of this kind is taken up in the future either by the state legislatures or by the Congress of the United States.

The most vexed question that the association had to deal with at the Toledo Convention was the question of the system or methods used by the United States Department of Agriculture in making reports on merchants who were found selling seeds which the Department claimed contained adulteration; the report in a great many instances doing manifest injustice to reputable seedsmen. Immediately upon my return from that convention, and before making the appointments of the different committees, I addressed a letter to Prof. Pieters, who was then in charge of that matter, protesting against any further reports being made under the prevailing methods used by the Department of Agriculture. I also suggested at that time a meeting between representative seedsmen and the Department officials, in order to arrive at some satisfactory conclusions in regard to the matter. I am glad to say that the effect of my letter was to bring about a conference of the special committee on Seed Adulteration, members of the Executive Committee and other representative seedsmen, with the Department officials, and further reports in regard to this matter were held up, pending that meeting. The results of the meeting were very satisfactory, the details of which you will have in a report from the Chairman of the Adulteration Committee, Mr. Albert McCulloagh.

I think it would be very desirable for the Committee on Experiment Stations to take up the question of having a Seed Control Station established at each of the State Experiment Stations throughout this country, where seeds could be tested both for the seedsmen and for the farmer. I am sure that any efforts on this line would meet with the hearty approval

and support of the United States Department of Agriculture, and it would unquestionably be of great benefit to the seed trade throughout this country.

I would also recommend that steps be taken by the Committee on Weights and Measures, to secure a uniform system of selling grass and clover seeds by the pound and hundred pounds, instead of by the bushel, as prevails in some of the leading markets of this country.

In regard to Postal Laws; the method of accepting and mailing catalogs in bulk, which was put in force last year, gives the seedsmen some relief where large quantities of catalogs are mailed. Further attempts should, however, be made to bring about a reduction of postage on printed matter, or at least on seed catalogs, to a rate of four cents per pound instead of eight cents per pound as at present; and if this matter is vigorously pressed before the present Congressional Committee on Revision of Postal Laws, I think it would meet with success.

An important matter which was actively considered at the Toledo convention was the question of the governmental appropriation for the purchase and distribution of common varieties of garden seeds. The campaign was most actively and energetically handled by the committee representing the seed trade at large, consisting of Mr. Alexander Forbes, Mr. W. Atlee Burpee and Mr. William Henry Maule. I am sorry to say, however, that further than securing an amendment to the original act the matter fell short of the success which we desired. Mr. Forbes, the Chairman of the Seed Trade Committee, will give you some very interesting information in regard to this matter, in his address on The Congressional Free Seed Distribution, and Mr. C. F. Wood, chairman of the Seed Trade Association committee will also make a report as to the workings of his committee in assisting the general committee in the campaign.

I do not think it advisable to recommend that a fight be continued on the same lines against the free seed distribution as for the past two years; but that a special committee be appointed, who shall act as occasion may offer, in opposition to an abuse that is detrimental to the interests of the seed trade and opposed to the policy of good government. This committee should also appear and make a proper representation of the matter before the House of Representatives Committee on Agriculture and the Senate Committee on Agriculture at the time at which they consider the bill for the usual appropriation for next year.

In regard to transportation matters: active steps should be taken to secure better classifications of existing freight rates upon various seeds. I am convinced that the existing classifications of certain seeds are entirely too high, and that if proper representations are made in regard thereto, it will result in certain seeds being placed in lower classifications, thus enabling dealers to ship at lower freight rates. The question of delays in freights is also a very serious one to seedsmen, especially when shipping to distant points, and I would recommend that this as-

sociation join one of the national freight-service associations for the securing of legislation to modify the abuses existing in this connection.

In regard to Registration Bureau work, a special committee for which was appointed to co-operate with the Department of Agriculture the past year: I was appointed chairman of that committee at the Toledo convention, but upon being elected to the presidency, requested Mr. W. Atlee Burpee to act in that capacity. Owing to press of business, Mr. Burpee advised me that he would be unable to assume the duties of the position; but after correspondence with the Department of Agriculture, I found it was impracticable to do anything in regard to this work this year, so did not make any further move in this direction. The question is a very important one, and if the Department of Agriculture is likely or willing to take up the work outlined at the Toledo convention, a committee should be appointed from the Seed Trade Association to co-operate with them in that direction.

I would strongly recommend that a special committee be appointed to have charge of the revision and getting up of an improved telegraph and cable code for the use of the seed trade at large. The present code, gotten up in 1895, has proved to be of very great benefit to the trade, but it needs revision and enlarging, and I feel that the proceeds from the sale of the code will meet the cost of undertaking this work. Even should this not be the case, however, the Seed Trade Association could not make any better appropriation of a limited amount than to secure a revised and improved code.

In conclusion, I would say that I am more than ever impressed with the future of the seed trade in this country, and that the seed trade is practically only developed in a very small degree, compared to the importance it is likely to reach in the future. With the increase of population, the improved methods of farming and gardening, and the increased prosperity of our agriculturists as a whole, the demand for seeds is bound to increase to a very great extent in years to come, and the seedsmen who develop or plans his business with a view to taking care of this growth and development will reap the benefit. I do not know of any business that offers the same incentive to study and improvement, or that offers more profitable returns for the time and attention given to it, than the seed business. It is certainly a business that is calculated to develop those who follow the occupation, to the fullest extent. The more we know of the seed business, the more we find is to be learned, and the possibilities for development are practically unlimited. Our young men cannot choose any better business, nor a business that offers more possibilities for the future, than the seed business of to-day; and there is no business that tends to bring out more the better qualities of those engaged in it. Travel where you may, you can always find matters to interest and benefit you in the seed business, and there is nothing that broadens and develops and gives more interest to travel, than the fact that

business and pleasure can be combined at the same time.

I wish to thank the members of the Seed Trade Association for the hearty support and co-operation which they have given me in the work undertaken for the benefit of the seed trade during the past year, and to pledge my best efforts for the future towards the development and the best interests of anything that may be proposed in a practical way for the advancement of the general interests of the seed trade.

The Secretary-Treasurer's Report.

The secretary-treasurer report presented by C. E. Kendel of Cleveland showed balance and receipts of \$1,547.34 and expenditures \$927.80, leaving a balance of \$619.54 with an outstanding bill for badges which would reduce same to \$544.54. The association then went into executive session.

Business was resumed at 3 P. M. and the program consisted of papers by F. W. Bruggerhof on "Reminiscences of the Seed Trade," Dr. B. T. Galloway on "What the Department of Agriculture is Doing for the Seed Trade," and S. F. Willard on the "History of the American Seed Trade Association." An invitation to spend the evening at the Roof Garden of the Hotel Astor was enthusiastically accepted.

SECOND DAY SESSION.

The second day's sessions opened at 10.30 A. M. on Wednesday. Committee reports were in order. The membership committee reported favorably on five applications and all were duly elected. The report of Messrs. McCullough and Burpee as delegates to the National Board of Trade meeting at Washington last winter was given at length, and indicated that the deliberations of that body are of much value and weight. Mr. Stokes reported for the committee on customs and tariff, and Chas. N. Page made an important and very interesting report for the postal laws committee, which brought out an animated discussion. S. F. Willard reported for the committee on seed legislation and Mr. Ross for the committee on Experimental Stations. His remarks on seed adulteration tests were very interesting and convincing, and he was followed on similar lines by Mr. Briggs of Toronto on the situation in Canada, both being received with appreciative applause by the meeting. The committee on obituary notices through its chairman, Mr. Green, presented resolutions on the death of Messrs. Otto Schwill of Memphis, Tenn., and H. R. Bassler of Waterloo, Wis. S. F. Willard reported for the committee on disclaimer.

The committee on the recommendations in the president's address then took the floor in the person of its chairman, G. B. McVay, and reported favorably on several of the recommendations therein made. On the proposition for a revision of the American Seed Trade Code a spirited discussion was precipitated, and it was finally decided to present a revised code for the approval of the executive committee. A request to the committee on Experiment Stations was adopted after debate to work for the establishment of seed laboratories at the various State experiment stations to supplement the

work now being done at the laboratory in Washington.

The next thing on the program was the paper by J. Horace McFarland on the Twentieth Century Seed Catalogue. Mr. McFarland was at his best, and his paper, replete with wise criticism and timely advice, was easily one of the best efforts ever made before any horticultural organization in this country. It was illustrated by stereopticon pictures and should have been heard and seen by every seed or nursery house issuing a catalogue. We hope to present the lecture in full in next week's issue. Watch for it.

Adjournment was had until 3 P. M., but it was 3.30 when the meeting was called to order and Alex. Forbes took the stand and read his paper on the Free Seed Distribution, which appears in another column of this paper. Secretary Kendel next reported as a delegate to the National Council of Horticulture, and after discussion the sum of \$200 was appropriated for the purpose of conserving the interests of the seed trade in the published matter sent out by this organization. W. P. Stokes then opened up the question as to whether it is advisable to offer discounts from catalogue prices. The consensus of opinion seemed to be in opposition to a continuance of this practice. The association then went into executive session.

THE BANQUET.

The banquet given at the Hotel Astor in honor of the twenty-fifth anniversary of the birth of the American Seed Trade Association on Wednesday evening, June 26, was a glorious and memorable occasion. One hundred and seventy-five ladies and gentlemen sat at the tables and enjoyed a regal feast while an orchestra discoursed sweet music. Patrick O'Mara, the ideal toastmaster, always witty, impressive and altogether inimitable, presided and called upon the various victims with such persuasive eloquence and amusing anecdotes that all took their medicine with a smile.

The first speaker was President Wood of the American Seed Trade Association, who received a well-merited ovation accompanied by the strains of "Dixie Land." His speech was optimistic and promising for the future prosperity of the seed trade. Capt. Landreth spoke next as a pioneer in the seed trade, and was followed by C. L. Allen, the Nestor of the seed business.

W. G. Johnson, of the American Agriculturist, made the speech of the evening, and told many amusing stories illustrating the growth and development of American Horticulture. President Wm. J. Stewart, of the Society of American Florists, was next called upon to respond for that society. He urged the need of education in horticulture and extended to the Seed Trade Association the best wishes of the S. A. F. and congratulations on the youthful vigor and enterprising policy which had characterized this memorable meeting. Albert McCullough was the next speaker and held his audience spellbound. Chas. P. Braslan told of the great development of the Pacific coast country in agriculture, and intimated that an invitation for the Association to hold next year's meeting at San Jose would be extended. Mr. Briggs of Toronto responded to a very complimentary ovation to

Canada and made an instructive address on Canadian agricultural conditions. W. P. Stokes of Philadelphia testified that, although an ex-president of the Association, he still felt young and eager to work in the ranks, and in conclusion called for a standing toast to Wm. Meggatt, an old-time member of the Association, which was responded to with hearty enthusiasm.

C. N. Page of Des Moines was the next victim of the toastmaster's wit and flattery, who responded appropriately. S. F. Willard was next enjoined to speak for the Nutmeg State, which he did in most acceptable style, adding a pleasant word for his friend and neighbor, Wm. Meggatt. J. Austin Shaw, for the horticultural press, was the next speaker and he was very happy in his allusions to the work and inspiration of the Association and the friendship of the horticultural press for the seed trade. Toasts to the ladies and the committee, the toastmaster, the Blarney stone and Henry Nungesser followed in rapid succession. Mr. Wood of Louisville responding for the latter and expressing regret over his inability to do justice to the subject. Mr. Groot of Holland being called upon, took occasion to express his gratitude for his kindly reception by the American trade.

ELECTION OF OFFICERS.

On Thursday forenoon the visitors enjoyed an auto excursion and on their return the meeting was called to order at noon, the principal business being the election of officers which resulted as follows:

President, George S. Green, of the Illinois Seed Co., Chicago; 1st vice-president, M. H. Duryea, of Henry Nungesser & Co., New York; 2nd vice-president, F. W. Bolgiano, Baltimore; secretary-treasurer, C. E. Kendel, re-elected.

Executive committee: H. W. Wood, Charles S. Burge, Leonard H. Vaughan, Chas. N. Page and Watson Woodruff.

Membership committee: Albert McCullough, S. F. Willard and F. W. Jones.

For the next meeting place California had sixteen votes and Detroit twelve, and decision accordingly will be referred to the executive committee. After the balloting adjournment was made to the reception room, where Walter P. Stokes, on behalf of the association, presented with appropriate remarks a fine binocular field glass to retiring President Wood. Mr. Wood responded, thanking the members for their support during his pleasant term of office and expressing grateful appreciation for the testimonial.

SEED TRADE NOTES.

The Venable Seed Co., Owensboro, Ky., has been petitioned into bankruptcy.

Among the San Franciscoans resuming business since the earthquake is Thomas Meherin who will shortly open near his old location.

A. F. Purcell of the Clipper Seed Cleaner, Saginaw, Mich., made the entire trip to the Seed Trade Convention in New York in an automobile.

J. Chas. McCullough, wife and daughter, who have been attending the Seed Trade Convention in New York sailed for Europe on the 27th. on the Deutschland.

REMINISCENCES OF THE SEED TRADE.

(Read before the American Seed Trade Association by F. W. Bruggerhof.)

An Extraordinary Advertisement.

I cannot let pass an opportunity like the present when I am called upon to relate the reminiscences of sixty years in the seed trade, to first call your attention to part of an extraordinary advertisement which was copied from the New York Commercial Advertiser by the Boston Courier in 1845. It shows clearly that the reminiscences of that advertiser, Grant Thorburn, are much more curious and interesting than mine since they date back to 1799 at a time when he was practically the only seller of seeds in this city. His advertisement goes on to say that he started with three pots of geraniums, a monthly rose and fifteen dollars' worth of seeds, and he makes the further statement that the seeds grew until they filled the whole continent; the rose blossomed until it spread into a tree and the little birds formed their nests under its branches.

It was then, before my time that a host of pretenders came boasting into



F. W. BRUGGERHOF

this country and among them was William Cobbett who arrived with an idea that all Republics were humbugs and so offensive did he become to good Americans that he was obliged to flee to England, whence he returned as a Radical Democrat to open a seed store at 62 Fulton street, this city where he sold ruta бага at \$1.00 per pound and black pigs at \$10.00 each.

My first experience in the seed trade as you know dated from 1847 at which time ruta бага seed, according to a catalogue of that date, did not sell at \$1.00 per pound but rather at 12 1-2c. an ounce, at which price some sixteen varieties of turnips were quoted. The item of black pigs does not appear on our lists and I am sure they were not considered seeds in those days. In that year, 1847, and for several years thereafter the seed trade in respect to flower and garden seeds was in very insignificant proportions through all of this country, and my records show that the actual seedsmen did not exceed in number fifteen or sixteen, and these were all of very modest pretensions and scattered between the cities of New York, Philadelphia, Baltimore, Rochester, Boston, Cincinnati, New Orleans and

St. Louis. Many garden seeds were grown, however, in Wethersfield, Conn., as well as in Lebanon, N. Y., and vicinity—these latter by the Shakers. In the small towns garden seeds were sold principally by druggists, hardware merchants and grocers. Probably many of you are of the opinion that in those bygone days the varieties of different classes of seeds were small but such really is not the case and you will be surprised to find that in the catalogue of Grant Thorburn, 1822, there are quoted some nine varieties of snap beans, and among them you will see Six Weeks, White Kidney and Refugee. Pole beans also appear in some six varieties such as Dutch Case Knife, Red Cranberry, Scarlet Runner, Large Lima, etc. Among the cabbages I find there were twenty varieties, such well known favorites as Early York, Early Sugar Loaf and Globe Savoy appearing.

In 1847 the catalogues were increasing in size and varieties of vegetables in proportion. This catalogue of 1847 shows a corn list of seven varieties some of which are very well known at the present day, like the Early Golden Canada, Early Burlington, Early Tuscarora, Early Dutton, etc. In 1864 other varieties are added to this corn list, like Early Dwarf, Darlings, Eight Rowed, Asylum and Stowell's Evergreen, Sugar, etc. Even in 1847 the list of peas was quite an extensive one there being at least thirty sorts catalogued but of these only two sorts were wrinkled. These were the Tall and Dwarf Knights, and British Queen and the next year brought us that famous old pea the Champion of England. In 1864 a dozen more wrinkled sorts were added and among them was the Advancer. Up to a period beginning about with our civil war nearly all garden peas were imported from England and they were indeed beautiful samples. Up to 1850 and for some years thereafter, all such imported seeds came by sailing vessel; peas and other articles in five bushels casks costing a guinea apiece. Later on, however, they were shipped in very heavy double sacks which were returned to the old country and used over again for several seasons.

Our catalogue of 1864 contained a long list of most of the leading vegetables of to-day and what strikes me as being very peculiar is, and it may be something equally curious to you gentlemen, that the prices of those days averaged about the same as the prices of the present day and the only marked exception to these prices was that of the Advancer pea which had only been recently introduced as a very fine wrinkled sort and it was quoted at \$1.00 a quart, while all the other varieties were listed at from 20 to 60c. a quart.

The high retail price for seeds began in 1867 and continued for some ten or eleven years during which period the ruling price for Valentine, Mohawk and Refugee beans was \$10.00 per bushel. Beets were then quoted at from \$1.00 to \$2.00 per pound; cabbage from \$2.50 to \$8.00 a pound; leek from \$1.00 to \$7.00 a pound; lettuce from \$2.00 to \$5.00; onions from \$3.00 to \$6.00; peas (the common sorts) 50c. per bushel; Little Gem, \$28.00 per bushel and \$1.00 a quart; York-

shire Hero \$18.00 per bushel; Champion of England \$10.00 per bushel; peppers from \$5.00 to \$7.00 a pound; radish from \$1.00 to \$1.50 a pound; turnips from \$1.00 to \$2.00 a pound. In 1869 all onions were quoted at \$6.00 per pound. It was in 1870 that the Egyptian beet was a novelty and its seed sold at 50c. an ounce. In 1873 I found Conover's Colossal asparagus listed at 50c. per ounce; Trophy tomato \$10.00 a pound, while the other varieties of tomato were quoted at from \$3.00 to \$4.00 per pound. Queen onions I find listed at \$10.00 per pound, and even up to a period as late as 1875 Carter's Premium Gem peas were quoted at \$1.50 a quart; the Blue Peter variety at \$1.25 a quart. The Beauty of Hebron potato was first offered for sale in 1878 according to Thorburn's catalogue of that date.

This parity of prices applied only to seeds and certainly not to the Holland bulbs, for I have before me now

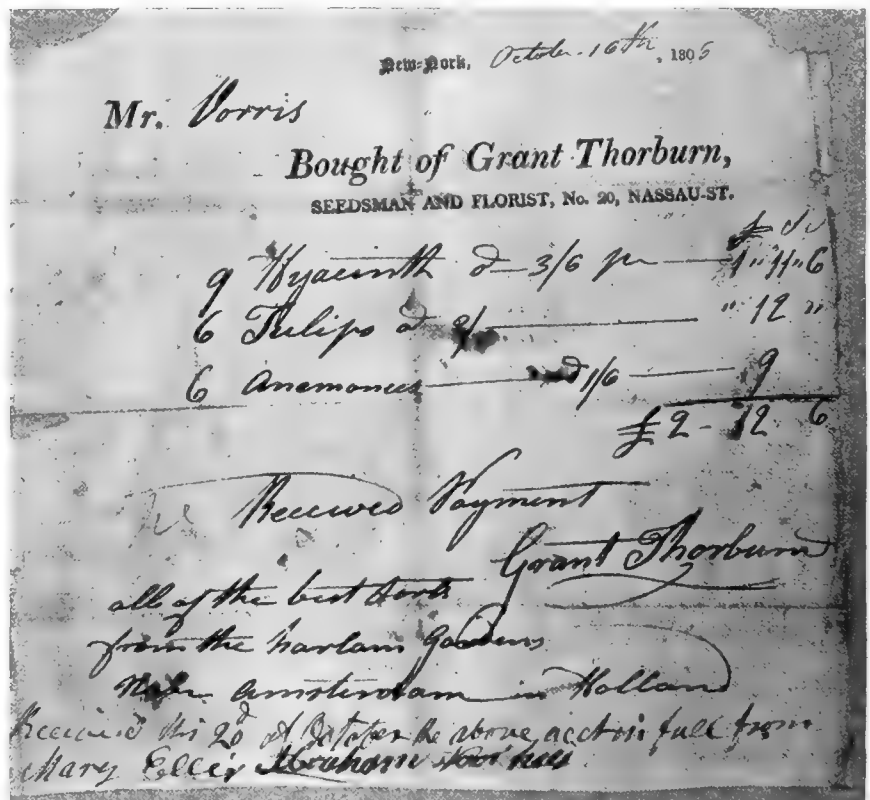
RUSTIC HANGING BASKETS



	Doz.	100
10 in. Bowl	\$1 10	\$11
12 " "	1.25	13
14 " "	1.50	16

W. Elliott & Sons
201 Fulton St., N. Y.

Witloef was listed—so many years ago—yet it seems scarcely known by anybody even at the present date, though quite large quantities of it are imported weekly from France and we all know how easily it may be



a small invoice dated 1806 rendered by our house, a photographic copy of which has been preserved, showing hyacinths charged at 3s. 6d. sterling each and tulips at 2s. sterling each. It is also interesting to note that at the date of the invoice mentioned English money was the only currency used here. It seems curious too, that in our catalogue of that date the Brussel

cultivated in our own gardens either for salads or for cooking.

Considering the many voluminous and many beautiful catalogues issued by our seed houses to-day, our modest pretensions of some sixty years ago seem plain and even insignificant. The increase in the size of the present catalogues comprising as they do so many novelties and new

ZIRNGIEBEL'S GIANT PANSIES

Fresh Crop

Now Ready

Famed for a quarter of a century and when you buy them you get the best in existence. I am continuing the pansy business on exactly the same standard as carried on by my father, the late DENYS ZIRNGIEBEL. None genuine unless sold by me.

AUGUSTUS ZIRNGIEBEL, Needham, Mass.

GIANT MARKET. "The Variety for the Million." Trade packet, 2000 seeds, \$1.00.

GIANT FANCY. The NE PLUS ULTRA in Pansies. Trade packet, 1000 seeds, \$1.00.

and beautiful things goes to show how our education and tastes in such matters are increasing from day to day and how of all the luxuries and industries, that of the cultivation of flowers and vegetables is the most innocent. It is productive not only of many gratifications but of many advantages also of a permanent character. The care of a garden is likewise a recreation and conduces materially to health, promotes civilization and softens the manners and tempers of men. In their growth from the tender shoots which rise from the earth through all the changes which they undergo to the period of their utmost perfection, man beholds the wonderful works of creative power. He views the bud as it swells and looks into the expanded blossom, delights in its rich tints and fragrant smell, but above all he feels a charm in contemplating the movements and regulations before which all the combined ingenuity of man dwindles into nothingness.

Chas. H. Vick of Rochester states that his firm will plant sufficient of Vick's Branching Aster, white, to produce 200 pounds of seed. As there are seven colors in this popular florists' aster some idea is afforded of the enormous demand for the seed.

ALL GIANTS are used in mixing our PANSY SEED

"BODDINGTON'S CHALLENGE" mixture contains all the finest *Giant* strains—of the leading Pansy Specialists in the world—the *Giant* self colors, the *Giant* striped and margined, and the *Giant* blotched—all carefully mixed in proportion—the *finest* that money can buy—the *finest* your money can buy. A florist who has grown it, said "Why don't you call it *Defiance*?"

Trade pkt. 75c, 1-4 oz. \$1.50, 1-2 oz. \$2.75, oz. \$5.00. New crop ready July.

... Order Now ...

A. T. BODDINGTON, 342 W. 14th St., N.Y. City

FRANCIS BRILL

Hempstead, (L. I.) N. Y.

WHOLESALE GROWER
AND DEALER

in the very best

GARDEN SEEDS

C. C. MORSE & CO.

Address all communications to our permanent address
48 to 56 Jackson St., San Francisco, Cal.

The Largest Seed Growers
in the United States

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

PANSY

MICHELL'S GIANT EXHIBITION

This is the finest strain of pansies in existence today. A grower wrote and told us he bought some elsewhere for \$10.00 per oz., which was not as good as ours for \$5.00 per oz.

50c. per trade pkt.; 1-8 oz., \$1.00;
\$5.00 per oz.

CINERARIA

MICHELL'S PRIZE MIXTURES

	½ trade pkt.	trade pkt.
Medium Fall,	60c.	\$1.00
Dwarf,	60c.	1.00

PRIMULA

MICHELL'S CHOICEST MIXTURE

Combining a wide range of colors, magnificent trusses

1-2 trade pkt., 60c.; \$1.00 per trade
pkt.; 1-16 oz., \$2.00.

Send for our Wholesale Price List
for Florists

HENRY F. MICHELL CO.

1018 Market Street

PHILADELPHIA - - PA.

SPECIAL OFFER

Begonias and Tuberoses

SINGLE TUBEROUS-ROOTED, large bulbs, extra quality, separate colors or mixed, \$1.25 per 100; \$7c.00 per 1000.

DOUBLE PEARL TUBEROSES,

4-6 inch.....	75c per 100:	\$5.50 per 1000
3-4 inch.....	40c "	2.50 "

PANSY

Johnson's Kingly Prize-Winner Strain

The finest strain of Giant Pansies in the market.
1000 seeds, 30c.; 2000 seeds, 50c.; 5000 seeds,
\$1.00; per ounce, \$5.00.

Write for our complete Pansy list.

JOHNSON SEED CO., 217 Market St.,
PHILADELPHIA

FISKE'S SEEDS

For Immediate Sowing

Also

GLADIOLUS BULBS

In variety and mixture

Our Trade List Mailed on Application

H. E. FISKE SEED CO., Faneuil Hall Square, BOSTON

Vick's Superb Pansy Seed

All the best varieties in separate colors

VICK'S SUPERB MIXTURE

the best strain from all the leading named sorts:

1-8 oz. 85c 1-4 oz. \$1.00 Ounce \$6.00

JAMES VICK'S SONS, Rochester, N. Y.

High Grade Seeds for

Market Gardener,
Florist and Farmer

Catalogues Free

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS

Look through the Buyers' Directory
and Ready Reference Guide. You
will find some good offers there also.

PULVERIZED SHEEP MANURE

Direct from ranches in the West.

We have on hand for immediate delivery a
large supply of exceptionally fine quality.

For the Lawn,

The Greenhouse,

For the Herbaceous Garden,

For the Flower Garden,

For the Vegetable Garden,

Use Purity Brand Sheep Manure.

PRICE,

Ton, \$40.00; half ton, \$20.00;
500 lbs., 10.00; 100 lbs., \$2.50.

R. & J. FARQUHAR & CO.,
6 and 7 So. Market St., BOSTON.

ESTABLISHED 1802

*Thorburn's
Seeds*

ASPARAGUS PLUMOSUS NANUS SEED.

Cold Storage LILY OF THE VALLEY
PIPS, best possible grade, in cases of 1000-
and 3000 pips each, at \$12.00 per 1000.

Advance Orders now being booked for
BERMUDA EASTER LILIES and ROMAN
HYACINTHS.

SEND FOR PRICES

J. M. THORBURN & CO.
33 Barclay St., through to 38 Park Place
NEW YORK

Everything of the Highest Grade

Grey's Highest Grade of Tested Seeds

Send for Catalogue

THOMAS J. GREY CO.

32 & 33 So. Market St., BOSTON

BRIDGEMAN'S SEED WAREHOUSE

RICKARDS BROS.

Props.

37 East 19th St., NEW YORK CITY

CAULIFLOWERS
A B B A G E^E_D

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

NEPHROLEPIS

Piersoni Elegantissima

The Tarrytown Fern

A good stock in all sizes on hand at all times. A splendid seller and money-maker. Large specimen plants, ready for immediate sale: 6-inch at 75c and \$1.00 each; 8-inch at \$1.50 and \$2.00 each; 10-inch at \$3.00 each; 12-inch at \$5.00 each; 14-inch at \$7.50 each; 16-inch at \$10.00 each. Also fine young stock for growing on, 2¼-inch at \$8.00 per hundred.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

THE CONGRESSIONAL FREE SEED DISTRIBUTION.

Paper read before American Seed Trade Association by Alex. Forbes.

What is known as the Congressional Free Seed Distribution is a rare old plant which first saw the light of day in 1839. It was a modest little specimen when first introduced. Congress at that time appropriated \$1,000 for the purchase of new, rare and valuable seeds, etc., to be distributed throughout the United States, for the purpose of increasing the output of agriculture. There was no Department of Agriculture in those days, so the fund was placed in the hands of the Commissioner of Patents, and as far as can be learned, the distribution was conducted wisely and in accordance with the intent of the framers of the measure.

Dr. Galloway, Chief of the Bureau of Plant Industry, in writing to a Congressman within the past year says:

"When this distribution was first undertaken, a great many years ago, there is no doubt but that it accomplished much good because at that time the seed industry was not as thoroughly organized as it is today. The practice of ordering through the mails from seed catalogues was not then in vogue and it was extremely difficult for a person living in an isolated locality to secure good garden seeds."

The Doctor wisely adds:

"This condition has changed, however, and today it is quite possible for anyone to buy garden seeds of the same varieties as we distribute."

The appropriation was modestly increased by Congress from year to year, in keeping with the expansion of the country, until 1865, when it amounted to \$61,000. The distribution remained in the hands of the Commissioner of Patents until that year, when the Department of Agriculture was organized, with a Commissioner of Agriculture as its head. The Hon. Jeremiah Rusk was the last Commissioner of Agriculture and the first Secretary of Agriculture, with a seat in the Cabinet.

With the exception of the years 1867, 1881 and 1882 (when the appropriation was over \$100,000) it rarely exceeded \$80,000. In 1885, however, it reached \$200,000, a mark

and has steadily increased during the past twenty years, until it reached the enormous sum of \$290,000 in 1905. So long as Congress kept within reasonable bounds, there was very little complaint on the part of the people. Over twenty years ago, there was an effort made by the seedsmen under the guidance of the late James Vick, Jr., to stop this Congressional Free Seed Distribution, but it met with very little success. Not more than five members of the House voted for its discontinuance. Since then, one large house in the middle west attempted, single-handed, to fight the distribution, claiming that Congress had no legal right to distribute common, ordinary varieties of garden seeds, when the Act called for new, rare and valuable sorts,—in other words that it was unconstitutional.

This case, however, was never brought to a test.

Then, about six years ago, a delegation of seedsmen, representing the leading eastern houses, waited on the Agricultural Committee of the House and laid their views before it. After hearing what the delegation had to say, the Hon. James W. Wadsworth, who was the Chairman, informed the delegation that he did not blame the seedsmen for trying to stop this Congressional Free Seed Distribution as then conducted, but that as Congress and the majority of the Committee were in favor of it, he could not hold out any hope for a change.

I was a member of that delegation and well remember that when we got back to the hotel and took up the afternoon papers, we found, to our surprise, that while we were having this interview with the Agricultural Committee of the House, Senator Tillman of South Carolina succeeded in getting an appropriation of an extra \$100,000 through the Senate, for free seeds. We felt there was no hope and came to the conclusion that there was nothing for us to do but to let Congress increase the appropriation until the evil became so glaring that it would right itself.

In the early part of 1906 there came a change. Up to this point, I have stated briefly the origin, history and

growth of the Congressional Free Seed Distribution. It has cost the country many millions, but so long as it was confined to the distribution of new, rare and valuable varieties, as was originally intended, it performed a useful purpose and was considered well worth what it cost the country, but as it is and has been conducted for many years, it is a ridiculous failure. Never was this more clearly demonstrated than during the past year.

In February, 1906, the Agricultural Committee of the House recommended leaving out of the Appropriation Bill the item for free seeds. This was a purely voluntary act on the part of the Committee and was as much of a surprise to the seed trade as it was to the country at large. The Agricultural Committee of the Senate was also in favor of the change. Even the Department of Agriculture endorsed the recommendation of the two Committees. The seed trade thought it was the least they could do to wait on the Agricultural Committee of both Houses and do what they could to strengthen their hands. To this end, representatives of the leading seed houses held a meeting in Washington, D. C., on the fifth day of March, 1906, and appointed a committee with power to act. A fund was raised, and the services of Wm. Wolff Smith of Washington were secured to look after their interests and keep track of what was going on at the

4000

Geraniums

S. A. Nutt, Poitevine, White,
John Doyle, \$6.00 per 100.

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BURGESS & COONEY

77 Lebanon St., Maplewood, Mass.

PREPARE FOR CHRISTMAS

Novelties always sell during the holidays. If you have not already grown them, try some Pink or Rose SPECIOSUMS. If potted in July will flower for Thanksgiving and Christmas. Always useful either for cut flowers or plants. Ask the leading florists in Pittsburgh, Cleveland, Detroit, Buffalo, or around New York City. Order today. Will ship any time. Cold storage Lilium longiflorums and giganteums take about two months to bloom from time of potting; speciosums from five to six months, so that longiflorums wanted for Thanksgiving and Christmas should be planted about Oct. 1, and speciosums in July.

ALL CASES ARE REPACKED BEFORE SHIPMENT

Lilium Longiflorum Giganteum	Per 100	Per 1000	Lilium Longiflorum Multiflorum	Per 100	Per 1000
7 to 9 inch bulbs, 300 in case	\$ 9.00	\$ 80.00	9 to 10 inch bulbs, 200 in case	\$11.00	\$100.00
Lilium Speciosum Rubrum			Lilium Speciosum Melpomene		
8 to 9 inch bulbs, 200 in case	8.00	75.00	8 to 9 inch bulbs, 200 in case	9.00	80.00
9 to 11 inch bulbs, 150 in case	12.50	110.00	9 to 11 inch bulbs, 150 in case	12.00	115.00

Full Cases Sold at 1000 Rate

ARTHUR T. BODDINGTON, 342 West 14th St., New York City

200,000 Calla Lily Bulbs--Æthiopica



Calla Æthiopica, 10 inches circumference	100	1000
" " 9 "	\$10.00	\$90.00
" " 8 "	9.00	80.00
" " 7 "	8.00	70.00
" " 6 "	7.00	60.00
" " 5 "	5.50	45.00
" " 4 "	4.50	35.00
" " 3 "	3.50	25.00
" " 2 "	2.25	15.00

The above Bulbs are all warranted to be free from disease, and safe arrival is guaranteed. My first car leaves for the East promptly on July 15. If cash is sent with the order I will prepay the freight, which is 15 per cent value of the bulbs.

A. MITTING, 17-23 Kennan Street, SANTA CRUZ, CAL.

WHOLESALE TRADE LIST

Plants from 2½ in. pots, 50c. per doz. \$3.00 per 100

Ageratum Inimitable, Blue Perfection, Heliotropes, Lobelia, Parlor Ivy. Shasta Daisies, 3 varieties. Night-Blooming Jasmine. Stevias dwarf and tall, Asparagus Sprengerii. Asparagus plumosus and Sprengerii, strong plants, 5-inch pots, \$2.00 per doz. Passiflora coerulea, Flordii x Mammoth Beauty, a hardy variety from 4-inch pots, \$1.00 per doz.; 3-inch pot plants, 75c. per doz. Clematis paniculata, 3-inch pots, 75c. per doz., \$5.00 per 100. Clematis, large-flowering varieties, home grown, two year old plants, \$3.00 per doz. Swainsona alba, 3-inch pots, \$5.00 per 100. Achyranthus Lindenii, Alternantheras, yellow, 2½-inch pots, \$2.00 per 100. Crotons, 4 in. pots, \$2.00 per doz. Asparagus Sprengerii, seedlings from flats at \$1.00 per 100. Chrysanthemums, best leading varieties, White, Yellow and Pink Plants from 2½-inch pots, \$2.00 per 100. Hardy English Ivy, fine plants, 4 in. pots, \$1.00 per dozen, \$8.00 per 100.

C. EISELE, - - 11th and Roy Streets, PHILADELPHIA, PA.

20,000 SALVIAS

Fine Stock,
BONFIRE, ST. LOUIS and SPLENDENS
2½ inch pots, \$3.00 per 100.
3 inch pots, \$4.00 per 100.

GARDENIA VEITCHII
20,000 plants in 2½ and 3 inch pots.
Fine clean stock.

JOHN SCOTT
Rutland Road and East 45th St.
Telephone 2890 Bedford. BROOKLYN, N. Y.

DRACAENA INDIVISA

25c. to \$1.00 each.
Variegated Funkias, out of 3 in. pots, \$5.00 per 100.
Calla Lilies, in bud or bloom, in 3 and 6 in. pots, 35c. each, \$30.00 per 100.
Large Marshal Niel Roses, \$1.00 each.
K. E. JUUL, Elizabeth, N. J.

SOME GIVE YOU QUANTITY
SOME GIVE YOU QUALITY
I GIVE YOU BOTH
Boston and Scotti Ferns

Dozen, \$6.00; 100, \$45.00; 1000, \$400.00
From 6-inch pots

GERANIUMS

Assorted Colors—4-inch—in Bud only
\$6.00 per 100

CASH WITH ORDER OR SATISFACTORY REFERENCES

WM. C. SMITH, PLANT SPECIALIST
61st and MARKET ST., Philadelphia

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When Writing to Advertisers Please Mention
HORTICULTURE.

GERANIUMS

Standard varieties and Novelties, for \$2.00 per 100 up to 75 cts. each. We will send 1000 in twenty varieties, our selection, single and double, for \$18.00 cash with order. Send for our Geranium catalogue, it contains descriptions of over 175 varieties. Visitors always welcome.

R. VINCENT, JR. & SONS CO.
WHITE MARSH, MD.

Geraniums Geraniums

The following varieties, in 4 in. pots, in bud and bloom, in fine condition. \$6 per 100.
S. A. Nutt, Beaute Poitevine, LaFayette, John Doyle, Bruanti, Marq. Castellane, Trego, Buchner, Richard Brett, Ricard, F. Perkins, Jean Viaude, Double Grant, Marq. de Montmort and several others.

Selection of sorts to remain with us.
Cash to accompany all orders.

J. E. FELTHOUSEN
154 Van Vranken A SCHENECTADY, N. Y.

HAVE YOU A SURPLUS
of any kind of stock? Make it a surplus
OF CASH
by advertising it in HORTICULTURE.

BEDDING PLANTS

Of Every Description
Also a fine lot of Palms in all sizes, such as Kentias, Arecas, Latanias, Phoenix and Cocos. Pandanus Veitchii and utilis, Cretons, Dracaenas, Nepenthes, Aralias, Araucarias, Aspidistras, Ferns suitable for dishes, in leading varieties. Cibotium Schiedel from \$1.00 to \$3.00 each.
Will book contracts for Azaleas for future delivery. Wholesale Price List on application.

A. LEUTHY & CO.,
Importers and Exporters, Growers and Dealers,
Perkins St. Nurseries, Roslindale,
BOSTON, MASS.

Welcome Elks and Florists

Don't fail to visit the Fraternal Headquarters in Philadelphia



We cordially invite the Florists who will visit Philadelphia next month to attend the Convention of the Benevolent Protective Order of Elks, to make our building their headquarters while they are in this city.

We are centrally located, a little over one block from the Lodge. We shall be decorated in your honor. Come to us. Bring your family to us, meet your friends here. Have your mail sent here. We want you to feel at home in the city of Brotherly Love.

H. BAYERSDORFER & CO., 1129 Arch Street, Philadelphia, Pa.

Capitol with regard to the free seeds. Very soon this became a live issue throughout the country. The seedsmen had a hearing before the Agricultural Committee of the Senate, May 11, 1906, and also before the Agricultural Committee of the House, December 12th and 13th, 1906. Those of you who have not copies of the reports of these hearings would do well to get your Congressmen to send them to you. You will find them very interesting reading. They are certainly unique and Wm. Wolff Smith and all connected with them deserve the thanks of the American Seed Trade Association for the manner in which they presented their case.

When the matter was finally fought out on the floor of the House, our representatives, by a majority of 136 to 84 voted for a continuance of the old plan. Never was there a more striking instance of the inability of the House to overcome its prejudices and give up a cherished custom,—that of handing out annually to their constituents a paltry political package of five papers of common garden seeds, which, according to Dr. Gallows, cost the Government one-half a cent apiece and which could certainly be procured without difficulty at any crossroad store.

We are told the farmers demand them, that Congress has done very little for the farmer, anyway, and that the least we can do is to allow our members of Congress to hand out to their farmer friends, once a year, with their compliments, this miserable little package of garden seeds of varieties that have been before the public for ten, twenty, thirty and forty years and which are not worth the cost of transmitting them through the mails.

If Congress must do this, let them send the farmers something that will tend to educate them. Let them send new and rare varieties that will fill up a blank in the existing list, but don't let them send out these common varieties which cost them next to nothing and which cannot accomplish any useful purpose whatever.

Looking at it from the standpoint of the American Seed Trade, is there any excuse for the existence of the Congressional Free Seed Distribution today, or has there been any for the past forty years? Has the American

Seed Trade been so behindhand in its methods and so inattentive to business, as to need the fostering hand of the Government to help it to place what is even new, rare and valuable, before the farmers and gardeners of the country? I think not! On the contrary, as a trade, as a body of men, they have shown marked ability, a strong desire to keep abreast of the times, to find new, rare and valuable plants, seeds and bulbs wherever they were to be found, the world over, and have endeavored to adopt the most up-to-date and approved methods that could be found. Indeed, it would be hard to find a body of men in any walk of life, that has displayed more resource, intelligence, activity, and sound business management than this very trade which Congress is competing with, under the guise of helping the farmer.

Looking at it from the farmers' standpoint, is there any excuse for the distribution of common varieties of garden seeds? What good is it doing the farmer? It has been clearly shown by the largest body of farmers known, the National Grange, with its 800,000 members, that they would rather have new, rare and desirable varieties that will suit their section and their soil, than the common kinds that have been sent out.

It is also shown by the Agricultural Press that they do not want this waste of public funds to continue. To show this, I will read the following:

National Agricultural Press League,
Office of Secretary,
Chicago, Ill., December 6, 1906.
NATIONAL AGRICULTURAL PRESS
LEAGUE ON THE FREE DISTRIBUTION OF SEEDS.

At the annual session in Chicago, December 5, 1906, the National Agricultural Press League adopted by a unanimous vote the following resolutions:

Whereas, Notwithstanding the protests of the farmers of the country, irrespective of locality or political affiliations, Congress at its last session again determined to continue the doubtful policy of distributing seeds of common and well known varieties; and

Whereas, The National Grange, the Farmers' National Congress, and hundreds of State and local agricultural and horticultural societies have adopted resolutions denouncing this practice and calling on Congress to turn the money over to the Department of Agriculture for work with the State experiment stations in the developing new varieties of seeds and plants suitable to the localities; and

Whereas, We believe that a vast major-

ity of the farmers of this country are opposed to the existing policy; therefore, be it

Resolved, That the National Agricultural Press League hereby reaffirms its opposition to the Congressional free seed distribution as at present conducted.

Resolved Further, That copies of this resolution be sent to all members of this league and to the members of the Committee on Agriculture of the United States Senate and House of Representatives.

The members of the National Agricultural Press League are: Southern Ruralist, Atlanta, Ga.; Farmer's Call, Quincy, Ill.; Farm Home, Springfield, Ill.; Prairie Farmer, Chicago, Ill.; Live Stock World, Chicago, Ill.; Farmer's Guide, Huntington, Ind.; American Farmer, Indianapolis, Ind.; Up-to-Date Farming, Indianapolis, Ind.; Homestead, Des Moines, Iowa; Kansas Farmer, Topeka, Kans.; Missouri Valley Farmer, Topeka, Kans.; Farm Poultry, Boston, Mass.; Farm and Home, Springfield, Mass.; Michigan Farmer, Detroit, Mich.; Rural Magazine, Detroit, Mich.; Farm, Stock and Home, Minneapolis, Minn.; Farmer and Stockman, Kansas City, Mo.; Drovers' Telegram, Kansas City, Mo.; Fruit Grower, St. Joseph, Mo.; Colman's Rural World, St. Louis, Mo.; National Farmer and Stock Grower, St. Louis, Mo.; Northwestern Stockman and Farmer, Helena, Mont.; Metropolitan and Rural Home, New York, N. Y.; Ohio Farmer, Cleveland, Ohio; Gleanings in Bee Culture, Medina, Ohio; Farm and Fireside, Springfield, Ohio; Farm News, Springfield, Ohio; Pacific Northwest, Portland, Oreg.; Farm Journal, Philadelphia, Pa.; National Stockman and Farmer, Pittsburgh, Pa.; Parks Floral Magazine, La Park, Pa.; Southwestern Farmer and Breeder, North Fort Worth, Tex.; Farm and Ranch, Dallas, Tex.; New England Farmer, Brattleboro, Vt.; Hoards' Dairyman, Fort Atkinson, Wis.; Wisconsin Farmer, Madison, Wis.

Very respectfully yours,
JAMES M. PIERCE, President.
JOHN M. STAHL, Secretary.

To be continued.

MOVEMENTS OF GARDENERS.

Ernest J. Brown, late superintendent to Geo. P. Tangeman, Glen Cove, has accepted a position as superintendent to Gustav H. Schwab, Scarborough, N. Y.

Nicholas Christian, gardener at the Prescott Bigelow estate, Manchester, Mass., will succeed MacKewan as gardener at the W. D. Denegre estate, West Manchester, Mass., July first.

Alex. Burr, gardener to Mr. Saltonstall for the last four years, has been appointed by Olmsted Brothers, Brookline, head gardener to Mr. W. A. Rogers, Kennebunkport, Maine. Mr. Burr is a member of the Gardeners' and Florists' Club of Boston.

During Recess.

DETROIT FLORIST CLUB.

At the last meeting Frank Holznagel had promised a paper but having just recovered from a short illness he was unable to discharge this duty. The club intends to arrange for several outings for the members and their families during the hot season. They start the ball rolling by going to Algonac on the 26th and woe be to the numerous fish abounding there when the Detroit florists arrive.

NEW YORK FLORISTS' CLUB.

The annual outing of the New York Florists' Club will take place on Tuesday, July 2. The gentlemen who have been working so zealously for the success of this affair are to be congratulated on the excellent program of sports arranged for the day, in which the ladies and children are especially provided for. The list of prizes donated by generous club members is a big one. Every florist in the neighborhood of New York city should provide himself with tickets for self and family and join the merry throng on this enjoyable excursion to Witzel's Grove.

WARETOWN ROD AND GUN CLUB.

The annual opening of this club of which John Westcott is the presiding genius took place on Friday, 21st inst. The usual crowd of florists and others closely identified with the trade attended. Fishing, shooting, quoits, and other pastimes, filled in the time of the opening day, as also of the two following days. Ideal weather prevailed but the fish were not biting. Of the crowd aboard the yacht, the Jonah responsible was not discovered. The commissariat department was ably handled as usual and everybody had a good time—and that was the main object of Mr. Westcott on this occasion, as on all others when he invites his friends to take a day off with him. Harvey Cedars and Barnegat City were among the places visited in the sailing trips of Saturday and Sunday.

BUSINESS CHANGES.

Wm. Terrell & Son have transferred their business interests to Warsaw, Ind., from Marion.

James H. Cleary, manager during the past five years for William P. Peirce, has bought out the business of Edward S. Haskell at 7 Pleasant street, New Bedford, Mass. Mr. Cleary is well advanced in his vocation, having been employed eight years by William Peirce, five years by H. A. Jahn and five years by William P. Peirce.

KORAL SCRIPT LETTERS AND EMBLEMS

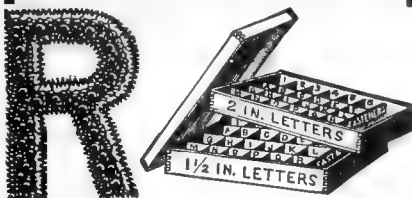
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	CHICAGO		TWIN CITIES		PHILA.		BOSTON	
	June 24		June 24		June 24		June 27	
ROSES								
A.m. Beauty, Fan. & Sp.	25.00	to 35.00	20.00	to 25.00	18.00	to 25.00	15.00	to 25.00
“ Extra.....	15.00	to 20.00	12.00	to 20.00	12.00	to 15.00	10.00	to 12.00
“ No. 1.....	10.00	to 12.00	12.00	to 15.00	8.00	to 10.00	6.00	to 8.00
“ Lower grades.....	4.00	to 6.00	10.00	to 12.00	2.00	to 5.00	.50	to 3.00
Bride, 'Maid, Golden Gate, F. & S.	5.00	to 6.00	8.00	to 10.00	5.00	to 8.00	4.00	to 6.00
“ “ “ Extra.....	4.00	to 6.00	to 8.00	3.00	to 4.00	3.00	to 4.00	
“ “ “ No. 1 & l.w. gr.	2.00	to 3.00	2.00	to 4.00	1.00	to 2.00	.50	to 1.00
Liberty, Richmond, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	5.00	to 8.00	6.00	to 8.00
“ Lower grades.....	3.00	to 5.00	6.00	to 8.00	1.00	to 3.00	.50	to 4.00
Chatenay, Morgan, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	5.00	to 6.00	3.00	to 5.00
“ Lower grades.....	3.00	to 4.00	6.00	to 8.00	2.00	to 3.00	.50	to 2.00
Kaiserin, Carnot, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	6.00	to 8.00	6.00	to 10.00
“ Lower grades.....	3.00	to 5.00	6.00	to 8.00	1.00	to 4.00	1.00	to 2.00
Killarney, Wellesley, Fan. & Sp.	6.00	to 8.00	8.00	to 10.00	4.00	to 6.00	6.00	to 8.00
“ Lower grades.....	3.00	to 4.00	6.00	to 8.00	1.00	to 2.00	1.00	to 3.00
CARNATIONS								
Fancy and Novelties.....	1.50	to 2.00	1.50	to 2.00	1.50	to 2.50	1.00	to 2.00
Ordinary.....	.75	to 1.00	.....	to 1.00	.50	to 1.00	.50	to 1.00
MISCELLANEOUS								
Sweet Peas.....	.50	to 1.00	.75	to 1.00	.25	to .75	.15	to .50
Cattleyas.....	40.00	to 50.00	50.00	to 60.00	50.00	to 60.00	35.00	to 60.00
Lilies.....	10.00	to 12.00	12.00	to 8.00	to 10.00	6.00	to 10.00	
Callas.....	8.00	to 10.00	12.00	to 8.00	to 10.00	6.00	to 10.00	
Lily of the Valley.....	3.00	to 4.00	2.00	to 3.00	2.00	to 4.00	2.00	to 4.00
Gardenias.....	.50	to 1.50	.50	to .75	8.00	to 12.00	2.00	to 4.00
Mignonette.....	4.00	to 8.00	3.00	to 5.00	2.00	to 3.00	1.00	to 2.00
Adiantum.....	1.00	to 1.00	to 1.50	1.00	to 1.50	1.00	to 1.50	
Smilax.....	15.00	to 18.00	12.00	to 15.00	12.50	to 15.00	12.00	to 16.00
Asparagus Plumosus, strings.....	35.00	to 50.00	to 30.00	35.00	to 50.00	to 50.00
“ “ & Soren. (top bchs.)	35.00	to 50.00	to 30.00	35.00	to 50.00	35.00	to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON Market conditions at the present time are in a bad way, with the rush of weddings and commencements over and a continued spell of hot weather the effect is felt both on prices and condition of stock. Flowers of every description show the effects of the weather, complaints being received on every hand. Peonies and Jacqueminot roses are plentiful, but have little demand owing to the fact of being so late. American Beauties faring no better. Kaiserin and Carnot are in good condition and are selling well, being the one redeeming feature of a wilted market.

The past two weeks **BUFFALO** found the market overstocked on all lines, although trade has been good considering the amount of stock handled. Roses and carnations have been too plentiful and the severe warm weather has made the keeping quality of short duration. Sweet peas and lily of the valley have had a fair demand, prices holding well. Now that the outdoor stock has appeared in large quantity and fine quality it is preferred. The week of June 24 being school week, a good demand is looked for.

At last the warm weather has come, and everything is jumping ahead. As expected stock both greenhouse and hardy is coming in fast, and in such enormous quantities that prices have had to give way

considerably. There has been nevertheless an excellent business the past week, even though our customers are beginning to go away for the summer. The seedsmen are on their last run for what has been the longest drawn-out season in years.

While commencement exercises kept things humming very lively the **DETROIT** local market experienced its first glut in carnations which could be relieved through fakers only. Most of the craft are thinking how to spend the vacation. Fortunately the past season has been so prosperous that the necessary wherewithal is there to make it possible.

In consequence of the warm weather more flowers are arriving than for a long time. Social events are few and far between. Roses of all sorts are showing plainly the effects of the heat. Outdoor flowers are in heavy supply. Sweet peas are in good demand and an abundance of splendid stock is to be had. Lilies and peonies are here in almost any quantity. Lily of the valley is fine but difficult to dispose of. Carnations in all grades are in excess of the demand. Greens of all kinds are more abundant and have a good call.

Summer languor prevails all over the flower markets. Nothing doing and apparently everybody taking the situation in philosophical

manner, for one hears no complaint. Quality of stock goes down as the mercury goes up, and the hot air period is on in earnest. This latter remark has no bearing on the picnic which is to take place, rain or shine, next Tuesday. The street will not miss the boys for one day, and the U. S. Express wagons are a hollow mockery. Wait a few weeks.

PHILADELPHIA Mysterious disappearance! A handsome reward will be given to any one who will find the cut flower market of this locality which mysteriously disappeared last week, and of which after the most diligent search by all concerned no trace has been found to date. One or two of the growers and distributors found a few of the cast-off garments of the flight—and fondly imagined they were almost in sight—but outside of these false alarms nothing has materialized. The flowers to supply the animal were here in abundance—in fact in such quantity as has never before been seen here within the memory of the oldest inhabitant—but they might have as well been kept at home, as they were not wanted. Anxious parents, the immediate relatives and retainers, as well as the general trade, eagerly await any news of the fugitive, and it is needless to say that no prodigal son ever received a warmer welcome than will be accorded the wanderer on its return.

Continued on page 865.

N.B. NO POSTPONEMENT

of Weddings or
Graduations
on account of cold
weather.

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MADISON SQ.****All Grades of Flowers for All Grades of Buyers****NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY**

	Last Half of Week ending June 22 1907	First Half of Week beginning June 24 1907		Last Half of Week ending June 22 1907	First Half of Week beginning June 24 1907
Roses			Carnations, Ordinary	.50 to .75	.50 to .75
Am. Beauty, fan and sp.	12.00 to 25.00	10.00 to 20.00	Sweet Peas (100 bunches)	1.00 to 5.00	1.00 to 5.00
" extra	6.00 to 10.00	6.00 to 10.00	Cattleyas	20.00 to 30.00	20.00 to 30.00
" No. 1	3.00 to 6.00	3.00 to 5.00	Lillies	2.00 to 4.00	2.00 to 4.00
" Lower grades	.50 to 2.00	.50 to 2.00	Callas	3.00 to 4.00	3.00 to 4.00
Bride, 'Maid, Golden Gate, fan & sp	4.00 to 6.00	3.00 to 5.00	Lily of the Valley	1.00 to 2.00	1.00 to 2.00
" " Extra	2.00 to 4.00	2.00 to 3.00	Gardenias	2.00 to 10.00	2.00 to 10.00
" " No. 1 & lw. gr.	1.00 to 2.00	.50 to 2.00	Mignonette	1.00 to 2.00	1.00 to 2.00
Liberty, Richmond, fancy & special	4.00 to 8.00	4.00 to 8.00	Lilacs (100 bunches)	1.00 to 2.00	1.00 to 2.00
" lower grades	1.00 to 2.00	.50 to 2.00	Peonies	.50 to 5.00	.50 to 5.00
Chatenay, Morgan, fancy and spec.	3.00 to 5.00	3.00 to 5.00	Adiantum	.50 to .75	.50 to .75
" lower grades	1.00 to 2.00	.50 to 2.00	" Croweanum	1.00 to 1.50	1.00 to 1.50
Killarney, Wellesley, fan. and spec.	4.00 to 6.00	3.00 to 5.00	Smilax	8.00 to 12.00	8.00 to 12.00
" lower grades	1.00 to 2.00	.50 to 2.00	Asparagus Plumosus, strings	20.00 to 25.00	20.00 to 30.00
Carnations, Fancy and Novelties	1.00 to 2.00	1.00 to 2.00	" " & Spreng. (100 bchs.)	10.00 to 20.00	10.00 to 25.00

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\$7.50 Case of 10,000

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BOXWOOD 2oc lb., 50 lbs. \$8.50

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Best Flowers

in the Boston Market

N. F. MCCARTHY & CO.

84 HAWLEY STREET
BOSTON, MASS.

SEND FOR PRICES

Headquarters in Western New York
FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

Wm. F. Kasting Co.

Wholesale Commission Florist, also Dealer in
Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.
BUFFALO, N. Y.

Give us a trial. We can please you.

The KERVAN CO.

20 WEST
27th ST., N. Y.

WHOLESALE DEALERS

Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen

BOXES BOXES BOXES

LIGHT WOOD CUT FLOWER BOXES

Sizes in Stock

per 100

3 x 4 x 20	\$4.00
3 x 5 x 24	4.50
3 x 7 x 21	4.50
6 x 6 x 24	6.80
4 x 12 x 24	9.00
6 x 12 x 24	10.50
6 x 12 x 30	12.50
5 x 12 x 36	14.00
6 x 12 x 36	15.00
6 x 15 x 42	20.00
6 x 15 x 48	23.00

Write for samples and prices in car load lots.

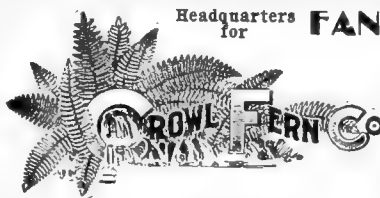
GETMORE BOX FACTORY, Incorporated,
BELLEVILLE, ALA.

NEWPORT TRADE NOTES.

Bruce Butterson shows no signs of permanent improvement, according to latest reports.

Mr. Guerineau, of the newly incorporated firm of T. J. Grey Co., was a visitor this week.

Business is decidedly brisk, and it looks as though it might continue for some time. This applies chiefly to plants, although the demand for cut flowers has increased enormously in the last few days. Nearly all the bedding plants grown by local men are cleaned out. Prices were and are a trifle higher than last year, especially for geraniums of good quality. Begonias have sold exceedingly well and at good figures.



Headquarters for

FANCY and DAGGER FERNS

SELECTED STOCK

Fancy, \$1.75 per 1000; Daggers, \$1.50 per 1000.
Laurel Festooning, best made, 4c, 5c and 6c per yard; once used, always used. Laurel Wreaths, \$3.00 per doz.; cheaper grades if wanted. Southern Smilax, fancy stock, 50-lb. cases, \$5.50. Branch Laurel, 35c per bunch. Princess Fine, 7c per lb. Brilliant, Bronze or Green Galax, No. 1 stock, 75c per 1000, or \$6.50 per case of 10,000.

Telegraph office: New Salem, Mass.
Long distance telephone connections.

CROWL FERN CO., Millington, Mass.

HENRY M. ROBINSON & CO.

WHOLESALE FLORISTS

FRESH CUT FLOWERS, CUT EVERGREEN, AND FLORISTS' SUPPLIES.

15 Province St. & 9 Chapman Pl., Boston, Mass.

WHOLESALE FLOWER MARKETS.—PER 100. TO DEALERS ONLY.

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	June 18		June 24		June 24		June 24	
ROSES								
Am. Beauty, Fan. and Sp.	25.00	to 30.00	25.00	to 35.00	20.00	to 22.00	15.00	to 20.00
" Extra	20.00	to 25.00	20.00	to 25.00	15.00	to 20.00	8.00	to 12.00
" No. 1	15.00	to 20.00	18.00	to 20.00	8.00	to 15.00	4.00	to 6.00
" Lower grades	8.00	to 10.00	6.00	to 12.00	3.00	to 5.00	1.00	to 3.00
Bride, 'Maid, Golden Gate, F. & S.	6.00	to 8.00	6.00	to 8.00	7.00	to 8.00	6.00	to 8.00
" " Extra	4.00	to 6.00	4.00	to 6.00	6.00	to 7.00	5.00	to 6.00
" " No. 1 & lw. gr.	2.00	to 4.00	2.00	to 4.00	2.00	to 3.00	1.00	to 2.00
Liberty, Richmond, Fan. & Sp.	6.00	to 8.00	6.00	to 8.00	10.00	to 15.00	8.00	to 10.00
" Lower grades	3.00	to 4.00	2.00	to 4.00	3.00	to 10.00	2.00	to 5.00
Chatenay, Morgan, Fan. & Sp.	6.00	to 8.00	6.00	to 8.00	10.00	to 15.00	4.00	to 8.00
" Lower grades	3.00	to 4.00	2.00	to 4.00	3.00	to 10.00	2.00	to 3.00
Kaiserin, Carnot, Fan. & Sp.	6.00	to 8.00	6.00	to 8.00	10.00	to 15.00	6.00	to 8.00
" Lower grades	2.00	to 4.00	2.00	to 4.00	3.00	to 10.00	3.00	to 4.00
Killarney, Wellesley, Fan. & Sp.	6.00	to 8.00	6.00	to 8.00	10.00	to 15.00	4.00	to 6.00
" Lower grades	2.00	to 4.00	2.00	to 4.00	3.00	to 10.00	2.00	to 3.00
CARNATIONS								
Fancy and Novelties	2.00	to 3.00	3.00	to 4.00	2.50	to 3.00	1.00	to 1.50
Ordinary	1.00	to 2.00	.75	to 2.00	1.50	to 2.50	.75	to 1.00
MISCELLANEOUS								
Sweet Peas	.25	to .50	.25	to .50	.40	to 1.00	.25	to .75
Cattleyas	50.00	to 100.00	50.00	to 100.00	50.00	to 100.00	50.00	to 100.00
Lilies	8.00	to 10.00	15.00	to 20.00	8.00	to 12.00	6.00	to 10.00
Callas	6.00	to 8.00	12.00	to 15.00	8.00	to 10.00	6.00	to 10.00
Lily of the Valley	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Gardenias	1.00	to 2.00	1.00	to 2.00	1.00	to 3.00	1.00	to 3.00
Mignonette	1.00	to 2.00	25	to 1.00	1.00	to 3.00	1.00	to 3.00
Adiantum	1.00	to 1.00	1.00	to 2.00	.50	to 1.00	1.00	to 1.50
Smilax	12.00	to 15.00	12.50	to 15.00	15.00	to 20.00	12.50	to 15.00
Asparagus Plumosus, strings	40.00	to 50.00	50.00	to 75.00	40.00	to 50.00	30.00	to 50.00
" " & Spreng. (100 bchs.)	25.00	to 30.00	30.00	to 40.00	25.00	to 50.00	20.00	to 25.00

Established 1891

BUY FROM
SHIP TO
TRY ME

ALFRED H. LANGJAHR

All Choice Cut Flowers in Season

55 West 28th St., New York

Telephone 3924 Madison Square.

The Reliable Commission House

Richmond Roses and Rich Flowers
of all varieties

JOS. S. FENRICH

110 W. 28th Street, New York

Tel. 324-325 Madison Square

Moore, Hentz & Nash,

Wholesale Commission Florists,

55 and 57 West 26th Street,

Telephone No. 756
Madison Square.

New York.

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122 West 25th St., New York

Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Glassware Decorative Greens and Florists' Requisites.

J. B. Murdoch & Co.

Wholesale Florists

FLORISTS' SUPPLIES

545 Liberty St., PITTSBURG, PA.

Long Distance Phone 1435 Court.

Southern Wild Smilax

Beaven's Fadeless Moss

Natural Sheet Mosses

E. A. Beaven, Evergreen, Ala.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

A. J. Dysart, 28 State St., Boston.
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ADIANTUMS

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

Adiantum Farleyense, strong plants, for propagating purposes, \$25.00 per 100. Cash with order. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

AGRICULTURAL IMPLEMENTS

Thos. J. Grey & Co., 32 S. Market St., Boston.

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Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
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ARAUCARIAS

A. Leuthy & Co., Roslindale, Mass.
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ASPARAGUS

C. Elsele,
11th and Roy Sts., Philadelphia, Pa.
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Wm. C. Smith, 61st and Market Sts., Philadelphia.

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John C. Hatcher, Amsterdam, N. Y.
Asparagus Sprengerii.
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Asparagus Plumosus nanus and Sprengerii, 2 1-4 in.; ready for planting out or into larger pots. \$3.00 per 100; \$25.00 per 1000; 500 at 1000 rates. J. F. Anderson, Short Hills, N. J.

Asparagus plumosus nanus and Sprengerii, 2 1-2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus, 2-in., \$3.00; 3-in., \$6.00; 4-in., \$12.00 100. Wittbold Co., 1657 Buckingham Pl., Chicago.

Asparagus Plumosa, 2-in. pots. Fine plants. \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, Co., 385 Ellicott St., Buffalo, N. Y.

AUCTION SALES

Bedding plants, trees, shrubs, conifers, bay trees, etc., every Tuesday and Friday. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

AZALEAS

A. Leuthy & Co., Roslindale, Mass.
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John Scheepers & Co., 4 and 6 Old Slip, New York.
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BAY TREES.

Bay Trees and Boxwood. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Specimens and pairs, all sizes. Send for prices. N. F. McCarthy & Co., 84 Hawley St., Boston.

Bay Trees and Box Trees, standards and pyramids. All sizes. Price list on application. J. Roehrs Co., Rutherford, N. J.

BEDDING PLANTS

J. E. Felthousen, Schenectady, N. Y.

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C. Elsele, 11th and Roy Sts., Phila.

Spring Bedding Plants.

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100,000 Bedding Plants, all sorts. Write for prices. E. D. Kaulback & Son, Malden, Mass.

Spring Bedding Plants in variety at auction every Tuesday and Friday during spring season. Purchases made on order. Mail your bid. N. F. McCarthy & Co., 84 Hawley St., Boston.

BEGONIAS

Rex begonias, 2-in., 3c. J. H. Dann & Son, Westfield, N. Y.

Begonias—Fairy Queen, Gracilis, and other flowering kinds; 3 inch \$5 per 100. Harlowarden Greenhouses, Greenport, L. I.

Begonia Gloire De Lorraine for delivery after August 1st, rooted leaf cuttings, 2 1-4 in. pots, \$12 per 100; \$100 per 1000. Orders filled in strict rotation. Send them in now and avoid disappointment. Julius Roehrs Co., Rutherford, N. J.

BOILERS

Kroeschell Bros., 35 Erie St., Chicago.

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BOILERS, "Burnham" Boilers made for greenhouse heating. Lord & Burnham, 1133 Broadway, N. Y.

BOXWOOD

Anton Schultheis, College Point, N. Y.

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BUILDING MATERIAL

BUILDING MATERIAL of all descriptions for All Cypress, Semi-Iron, Iron Frame or Truss Houses. Hot Bed Sash and Frames. Lord & Burnham Co., 1133 Broadway, N. Y.

BULBS AND TUBERS

Joseph Breck & Sons, 47-54 N. Market St., Boston.

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J. M. Thornburn & Co., 33 Barclay St., New York.

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A. T. Boddington, 342 W. 14th St., N. Y. Cold Storage Lilies.

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Rickards Bros., 37 East 19th St., New York.

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H. F. Michell Co., Philadelphia.

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Johnson Seed Co., 217 Market St., Phila.

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John Scheepers & Co., 4 and 6 Old Slip, New York.

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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.

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A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.

Calla Bulbs.

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James Vick's Sons, Rochester, N. Y.

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Write for prices on only selected bulbs, plants, etc. F. W. O. Schmitz, Prince Bay, N. Y.

C. Keur & Sons, Hillegom, Holland, or 334 The Bourse, Philadelphia, Pa. Write for prices on all bulbs and plants.

Price list of native bulbs, tree, shrub and plant seeds now ready. L. E. Williams, Nottingham, N. H.

CANNAS

The Conard & Jones Co., West Grove, Pa.

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CARNATIONS

The H. Weber & Sons Co., Oakland, Md.
Carnation Mabelle.

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F. Dorner & Sons Co., Lafayette, Ind.

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Carnations. Boston Market, rooted cuttings, \$10.00 1000; unrooted, \$5.00 1000. Cash. E. D. Kaulback & Son, Malden, Mass. 35,000 square feet covered by Glass.

How to grow Fancy Carnations we teach by correspondence. Intelligent persons desiring to be carnation experts can learn. If you fail to produce A No. 1 fancy carnations, write to us and we will send you full particulars. Enclose 2c. stamp. Florist Correspondence School, Box 426, Missoula, Mont.

CEDAR BEAN POLES

1 1-2 inch butt, 5 ft. to 7 ft. long, \$10.00 per 1000; 2 inch butt, 8 ft. long, \$15.00 per 1000; 2 1-2 inch butt, 10 to 12 ft. long, \$22.50 per 1000. H. R. Akers, Chatsworth, N. J.

CHRYSANTHEMUMS

S. S. Skidelsky, 824 N. 24th St., Philadelphia.

Chrysanthemum Golden Dome.

Charles H. Totty, Madison, N. J.

W. W. Edgar Co., Waverley, Mass.

Chrysanthemum stock plants. About 1,000 Jeanne Nonin, \$1.00 per doz.; \$7.00 per 100. W. F. Kasting Co., 383 Ellicott St., Buffalo, N. Y.

Chrysanthemums—All good late kinds, standard novelties out of 2 1-2 inch, up to September 1. Harlowarden Greenhouses, Greenport, N. Y.

Chrysanthemums. We will prepay the charges on R. C. of Alice Byron, Polly Rose, Halliday, Enguehard, \$1.50 per hundred. Cash with order, please. W. H. and C. B. Newman, Akron, N. Y.

Nothing worth growing but the best. Oct. Frost, Beatrice May and Nivena our most profitable white.

Rosiere, M. F. Plant, Mayor Weaver, grand new pinks, Pres. Roosevelt, the glorified pink Ivory Santa Claus, Xmas pink. Strong plants topped back 8c., R. C., 5c.

C. Tousey, Mrs. Duckham, Oct. Sunshine, Monrovia, strong plants, 5c.; R. C., 3c.

J. K. Shaw, best early pink, Wm. Duckham, Enguehard, also Adelia, incurved white and Jeanne Nonin, the July late white; plants 3c., R. C., 2c. City greenhouses, Union City, Pa.

COLEUS

Coleus, Golden Bedder, from 2 1-2 in. pots, \$2.00 per 100. W. H. Mann, Stoughton, Mass.

Coleus Verschaffeltii, 2 1-2 in. pots, \$2.50 per 100. Tall dark Cannas, 5 in. pots and flats, \$6.00. Cobea scandens, 3 1-2 in., \$6.00. Geraniums, 3 1-2 in., Nutt, Doyle, Ricard and Butt, \$6.00. Achyranthes, from 2 1-4 in., \$2.50 per 100. Edward Winkler, Wakefield, Mass.

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CONIFERS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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Wm. H. Moon Co., Morrisville, Pa.
American Arborvitae.
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Evergreens and Conifers. Ask for catalogue. Bobbink & Atkins, Rutherford, N. J.

Write for prices on all choice ornamental conifers. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

CUT FLOWER BOXES.

Welch Bros., 226 Devonshire St., Boston.
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Edwards Folding Box Co., Philadelphia.
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Getmore Box Factory, Inc., Belleville, Ala.
Light Wood Boxes.
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Folding Cut Flower Boxes, all sizes. N. F. McCarthy & Co., 84 Hawley St., Boston.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

CYCLAMEN.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.
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Giant Hybrids transp'l, ready for 2-in. and 3-in., \$3.50 100; \$30.00 1000. Plants grown of seed taken from the cream of my well known strain. Christ. Winterlich, Cyclamen Specialist, Defiance, Ohio.

DAHLIAS

David Herbert & Son, Atco, N. J.
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Dahlias, strong field roots, good assortment to exchange for plants of Carnation Boston Market, Enchantress. H. W. Mann, Stoughton, Mass.

DECORATIVE PLANTS

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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DRACAENAS

K. E. Juul, Elizabeth, N. J.
Dracaena Indivisa.
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Anton Schultheis, College Point, N. Y.
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Dracaena terminalis from bench, fine. \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

Dracaenas, indivisa, 3-in., \$5.00 per 100; 6-in., \$6.00 per doz.; 7-in., 30 to 34 ins. high, 75c. each, \$9.00 per doz.; 8-in. \$12.00 per doz. Terminalis, 3-in., \$2.00 per doz.; 6-in., 75c. each; 4-in., 25c. each, \$3.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

FERNS

Baur Floral Co., Erie, Pa.
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A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitman.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Nephrolepis Piersoni Elegantissima.
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Wm. C. Smith, 61st and Market Sts., Philadelphia.
Boston and Scottii Ferns.
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FICUS

Baur Floral Co., Erie, Pa.
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FLORAL PHOTOGRAPHS

Floral Photographs. Foley's 226-228-1-2 Bowery, New York.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.

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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.

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Koral Mfg. Co., 26 Hawley St., Boston.
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FLORISTS SUPPLIES

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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.

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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.

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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

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FLOWERS BY TELEGRAPH

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Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
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Thos. Young, Jr., 41 W. 28th St., N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Young & Nugent, 42 W. 23th St., N. Y.
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Theodore Miller, 4832 Delmar Rd., St. Louis, Mo.
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P. J. Hauswirth (Temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Ave and 31st St., Chicago.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Jacob Schulz, 644 4th Ave., Louisville, Ky.
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Atlanta Floral Co., Atlanta, Ga.
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David Clarke's Sons, 2139-2141 Broadway, New York.
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W. H. Donohoe, 2 W. 29th St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

FLOWER POTS

W. H. Ernest, 28th and M Sts., Washington, D. C.

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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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FUCHSIAS

Baur Floral Co., Erie, Pa.

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GALAX

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.

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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.

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Galax. Ask for price on case lots. Scranton Florists' Supply Co., Scranton, Pa.

GARDENIAS

John Scott, Rutland Rd., and E. 45th St., Brooklyn, N. Y.

Gardenia Veitchii.

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GERANIUMS

J. E. Felthousen, Schenectady, N. Y.
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H. Vincent, Jr., & Son, White Marsh, Md.
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A. G. Lake, Wellesley Hills, Mass.
R. Engelman & Son, Pittsfield, Mass.

Geraniums, strong in bloom, \$6.00 per 100. J. H. Dann & Son, Westfield, N. Y.

Geraniums—Jean Viaud, 4 in., \$6.00 per 100; Mme Sallerol, 2 in., \$2.50 per 100. William Doel, Pascoag, R. I.

GLADIOLI

Arthur Cowee, Meadowvale Farm, Berlin, New York.

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Gladioli. Write for leaflet. B. Hammond Tracy, Cedar Acres, Wenham, Mass.

GLASS

Boston Plate & Window Glass Co., Boston.
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GLASS, High Grade, Double Thick Greenhouse Glass. Lard & Burnham, 1133 Broadway, N. Y.

GLAZING POINT

H. A. Dreer, Philadelphia, Pa.
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GLAZING POINTS, Lord & Burnham Special Glazing Nails (Points). Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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S. Jacobs & Sons, 1365-79 Flushing Ave., Brooklyn, N. Y.

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D. Iliffe, 49 Washington St. N., Boston.
Piping and Construction.

Metropolitan Material Co., 1398-1408 Metropolitan Ave., Brooklyn, N. Y.

In writing to Advertisers kindly mention Horticulture

GREENHOUSE CONSTRUCTION

GREENHOUSE CONSTRUCTION, Semi-Iron Greenhouses, New Truss Houses and Iron Frame Houses. Lord & Burnham, 1133 Broadway, N. Y.

GREENHOUSE HOSE

Mineralized Rubber Co., 18 Cliff St., N. Y.
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GUTTERS

GUTTERS, Cast Iron Gutters, L. & B. Improved V Shaped Gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

HARDY FERNS AND SUPPLIES

H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston, Mass.
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Crowl Fern Co., Millington, Mass.
Fancy and Dagger Ferns.
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The Kervan Co.,
20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 & 40 Broadway, Detroit, Mich.
Fancy Ferns.
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E. A. Beaven, Evergreen, Ala.
Fadefless Sheet Moss.
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A full line of ferns, galax, and all wild greens. N. F. McCarthy & Co., 84 Hawley St., Boston.

HARDY PERENNIALS

M. H. Walsh, Woods Hole, Mass.
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HEATING APPARATUS

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Kroeschell Bros., 35 Erie St., Chicago.
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W. W. Castle, 170 Summer St., Boston.
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Johnston Heating Co., 1133 Br'dway, N. Y.
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HORSES

Useful work-horses for florists' spring work; also florists' delivery wagons, good as new. Edward Higgins, 1 West 28th St., New York.

HOT-BED SASH

The A. T. Stearns Lumber Co., Neponset, Mass.
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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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HOT WATER CIRCULATOR

W. W. Castle, 170 Summer St., Boston.
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HYDRANGEAS.

John C. Hatcher, Amsterdam, N. Y.
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IVY

Chas. Lenker, Freeport, L. I., N. Y.
English Ivy.
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English Ivy 2-in., \$2.00; R. C., 75c. per 100. J. H. Dann & Son, Westfield, N. Y.

INSECTICIDES.

Nicotinide kills all greenhouse pests.
P. R. Palethorpe Co.,
Eleventh St., Louisville, Ky.
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JAPANESE LILIES.

Yokohama Nursery Co., 31 Barclay St., New York.
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KENTIAS

A. Leuthy & Co., Roslindale, Mass.
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LAWN AND CEMETERY VASES

Kramer Bros. Foundry Co., Dayton, Ohio.
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LAWN MOWER

Clipper Lawn Mower Co., Dixon, Ill.
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Alex. McConnell, New York.
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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Young & Nugent, 42 W. 28th St., N. Y.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Ave. and 31st St., Chicago.
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Park Floral Co., Denver, Colo.
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Thos. F. Galvin, 124 Tremont St., Boston.
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Atlanta Floral Co., Atlanta, Ga.
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Jacob Schulz, 844 4th Ave., Louisville, Ky.
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David Clarke's Sons, 2139-2141 Broadway, New York.
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W. H. Donohoe, 2 W. 29th St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LOBELIAS

LOBELIA KATHLEEN MALLARD.
New, fine dark blue double flower, 2 in. stock, \$2.00 per doz. Julius Roehrs Co., Rutherford, N. J.

MASTICA

F. O. Pierce Co., 170 Fulton St., New York.
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MOON VINES

Godfrey Aschmann, 1012 Ontario St., Phila.
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MOSCHOSMAS

Moschosma riparium, a valuable new Christmas flowering plant. Write for descriptive circular and price list. Chas. H. Totty, Madison, N. J.

NIKOTEEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.
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The Conard & Jones Co., West Grove, Pa.
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The Wm. H. Moon Co., Morrisville, Pa.
American Arborvitae.
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Oak Hill Nurseries, 114 Poplar St., Roslindale, Mass.
Berberis Thunbergii.
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New England Nurseries, Bedford, Mass.
Shrubs, Roses and Herbaceous Perennials.
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Nursery Stock. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

ORCHID PLANTS

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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A. Held, 11-19 William St., New York.

Selbrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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Jos. A. Manda, 191 Valley Road, W. Orange, N. J.
Orchids, Orchid Baskets, Peat.
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Ordenez, De Nave & Co., Madison, N. J., Box 105.
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PALMS

A. Leuthy & Co., Roslindale, Mass.
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Siebrecht & Son, Rose Hill Nurseries, New Rochelle, N. Y.
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Anton Schultheis, College Point, N. Y.
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Kentia-Phoenix, etc., all sizes. Write for new price list. Julius Roehrs Co., Rutherford, N. J.

PAINT AND PUTTY

Benj. Hammond, Fishkill-on-Hudson, N. Y.
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PAINT AND PUTTY: Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham, 1133 Broadway, N. Y.

PATENTS

Siggers & Siggers, Washington, D. C.
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PEONIES

Wholesale grower of peonies. List of 100 varieties. J. F. Rosenfield, West Point, Neb.

PIPE AND FITTINGS

PIPE AND FITTINGS. Cast Iron and Wrought Pipe, Valves, Elbows, Pipe Hooks, Automatic Air Headers, etc. Lord & Burnham, 1133 Broadway, N. Y.

PLANT STANDS

The Wittbold plant stand, \$18.00 per doz. The Geo. Wittbold Co., 1657 Buckingham Place, Chicago.

PLANT BED CLOTH

Mineralized Rubber Co., 18 Cliff St., N. Y.
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POT HANGERS

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

RHODODENDRONS

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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McHutchison & Co., 17 Murray St., N. Y.
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ROSES

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Jones and Ramblers.
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Thomas Roland, Nahant, Mass.
Lady Gay Roses.
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John C. Hatcher, Amsterdam, N. Y.
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Montrose Greenhouses, Montrose, Mass.
Grafted Brides and Maids on English Manetti.
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Chicago Carnation Co., Joliet, Ill.
American Beauty Plants.
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Baur Floral Co., Erie, Pa.
Roses for Benching.
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Low-budded roses, No. 1, \$95.00; No. 11-2, \$65.00 1000. H. T. Jones, Elizabeth, N. J.

1500 American Beauty Plants in 4 in. pots, at \$10.00 per 100; \$80.00 per 1000. Address John Klotzmann, Madison, N. J.

Roses, Bride, Bridesmaid, Ivory, 2 1/2 in. shifted from 2 in., \$3.00 per 100; \$25.00 per 1000. Wm. B. Sands, Lake Roland, Md.

Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1/4 in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SALVIAS

John Scott, Rutland Rd., and E. 45th St., Brooklyn, N. Y.
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SEEDS

T. J. Grey Co., 32 So. Market St., Boston, Mass.
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Joseph Breck & Sons
51 and 52 N. Market St., Boston, Mass.
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A. T. Boddington, 342 W. 14th St., N. Y.
Challenge Pansy Seed.
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H. F. Michell Co., 1017 Market St., Phila.
Pansy, Cineraria, Primula Seeds.
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James Vick's Sons, Rochester, N. Y.
Vick's Superb Pansy Seed.
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Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Richards Bros., 37 E. 19th St., New York.
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Johnson Seed Co., 217 Market St., Phila.
Kingly Prize-Winner Pansies.
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R. & J. Farquhar & Co., 6-7 So. Market St., Boston.
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Wm. Elliott & Sons, 201 Fulton St., N. Y.
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C. C. Morse & Co., 48-56 Jackson St., San Francisco, Cal.
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H. E. Fiske Seed Co., Faneuil Hall Sq., Boston.
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Augustus Zirngiebel, Needham, Mass.
Giant Pansies.
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PANSY SEED—The best obtainable. Francis Brill, Hempstead, N. Y.

New stock of *Spiraea arguta* and *Thunbergii*, \$1.00 per ounce; trade packet by mail, 25c. T. N. Hadden, 270 Dudley St., Roxbury, Mass.

I sell only reliable flower seeds. Ask for wholesale catalogue. O. V. Zangen, Hoboken, N. J.

Surplus Garden Peas—50 bu. Alaska, \$3.25 per bu.; 40 bu. First and Best, \$2.00 per bu. New crop northern Michigan grown; none better. W. F. Allen, Salisbury, Md.

SHEEP MANURE

R. & J. Farquhar & Co., 6 and 7 So. Market St., Boston.
Pulverized Sheep Manure.
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SHEET MOSS

E. A. Beaven, Evergreen, Ala.
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SMALL FRUIT PLANTS

Dewberry plants, Lucretia and Austin, \$5.00 per 1000, \$20.00 per 5000; Premo, \$6.00 per 1000, \$25.00 per 5000; Turner red raspberry plants, \$6.00 per 1000, \$25.00 per 5000. W. F. Allen, Salisbury, Md.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIREA

Spiraea, extra fine clumps in leading variety. F. W. O. Schmitz, Prince Bay, N. Y.

STEAM TRAP

E. Hppard, Youngstown, O.

STEVIA

C. Elsele, Philadelphia.
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STRAWBERRY PLANTS

Strawberry plants, 90 best varieties, stock unexcelled. Ask for prices on what you want. W. F. Allen, Salisbury, Md.

VEGETABLE PLANTS

Millions of vegetable plants. Fifteen varieties cabbage, \$1.00 per 1000. Cash. Catalogue. E. M. Pattington, Scitoville, N. Y.

Danish Ball Head Cabbage—Strong, straight root-pruned plants, ready for field, from the best imported seed, \$1.50 per 1000. Frank Shearer & Son, Market Gardeners, Binghamton, N. Y.

50,000 large 4-year old Barrs Mammoth Asparagus roots, \$6.00 per 1000; \$25.00 per 5000. (500 will fill a sugar barrel.) Address W. F. Allen, Salisbury, Md.

We can furnish Strawberry plants and Asparagus roots from April first to December first. Spring prices hold until August first. Hitchcock's Nursery, Agawam, Mass.

VENTILATING APPARATUS

Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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J. C. Moninger Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VENTILATING MACHINERY. New Model encased, self-oiling gear; Standard Model Open Gear. Lord & Burnham, 1133 Broadway, N. Y.

VIOLETS.

H. A. Molatsch & Son, Nanuet, N. Y.
Gov. Herrick Violet.
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WILD SMILAX

E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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WIREWORK

Reed & Keller, 122 W. 25th St., N. Y.
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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

William E. Hellscher's Wire Works, 88-40 Broadway, Detroit, Mich.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

All standard frames in stock. Special designs made to order in hurry-up time. N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.

WIRE SUPPORTS

The Helm Carnation Support. Write for price. Helm Carnation Support Co., Connersville, Ind.

WHOLESALE FLORISTS**Boston**

N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Robinson & Co., 15 Province St., and 9 Chapman Pl., Boston.
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George A. Sutherland Co., 34 Hawley St., Boston.
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Welch Bros., 226 Devonshire St., Boston.
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In writing to Advertisers kindly mention Horticulture

WHOLESALE FLORISTS— Continued Buffalo

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Chas. W. McKellar, 51 Wabash Av., Chicago.
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E. F. Winterson Co., 45-49 Wabash Ave.,
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Johnson Seed Co., Philadelphia.
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CHRYSANTHEMUMS.

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KENTIA PALMS.

August Rolker & Sons, 31 Barclay St., New
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VARIEGATED AGAVES.

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lyn, N. Y.
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WANTS, FOR SALE, ETC.

Advertisements in this column one
cent a word. Initials count as words.
Cash with order. All correspondence
addressed "care HORTICUL-
TURE" should be sent to 11 Ham-
ilton Place, Boston.

HELP WANTED

HORTICULTURE needs a wide-
awake representative in every town
in the land. Good commissions paid
on advertising and subscriptions. If
you are ambitious, write for terms.

WANTED—Single head gardener on pri-
vate estate with first-class experience un-
der glass and outside. Protestant. Wages
\$50 to \$60 per month and board. Reply to
"Gardener," No. 6 South Market Street,
Boston, Mass., care of R. & J. Farquhar
& Co.

SITUATIONS WANTED

SITUATION WANTED

As working foreman or head gardener.
Age 38; married. Best of reference. New
England preferred. H. W., care HORTI-
CULTURE.

POSITIONS WANTED for head garden-
ers and assistants; for further information
apply to W. W. Rawson & Co., 5 Union
St., Boston, Mass.

NEWS NOTES.

John Lamont, Jr., will start in the
florist business in S. Hadley Falls,
Mass.

W. L. Taylor of Minnesota and J.
B. Saunders will start in the nursery
business near Mandan, N. D.

F. & W. Topel have taken the
greenhouses of C. Bussjaeger at St.
Paul, Minn., for a term of years.

A new office and salesroom have
been added to the equipment of the
Riverside Greenhouses, Lansing, Mich.

Arthur Kidder has purchased the
greenhouses of Jones Potter, North
Beverly, Mass., and will move them
to Conant street.

The New England Trade Press Asso-
ciation met on June 20 at the Boston
Club and elected officers as follows:
Pres., Henry L. Johnson; vice-pres.,
E. B. Pillsbury, F. F. Cutler, W. J.
Stewart; sec-treas., L. F. R. Langelier;
ex. com., W. L. Terhune, I. P. Fox.

CLUB AND SOCIETY NOTES.

The rose show of the North Shore
Horticultural Society will be held July
10 and 11, on the grounds of the Essex
County Club, Manchester, Mass.

A preliminary meeting of the dahlia
growers of Ansonia, Derby and Sey-
mour, Ct., was held on June 21, and a
committee was appointed to prepare
by-laws and rules to be presented at
a meeting on July 12, when permanent
officers will be elected.

On June 17 Jno. Trumbull addressed
the members of the New London
County Horticultural Society (Conn.).
on "Our Native Orchids." Under the
auspices of this society State Ento-
mologist W. E. Britton delivered an
illustrated lecture on June 22 on "Care
of trees and how to preserve them
from insects."

The Gardeners' and Florists' Club
of Boston will hold a field day in the
Boston Parkways on Saturday, June
29. The place of meeting is Audubon
road, Riverway, and Brookline avenue.
Members should take Brookline ave-
nue cars via Ipswich street, or any
Beacon street car to Audubon road,
then walk (two minutes) to River-
way.

A DESIRABLE GIFT FOR YOUR EMPLOYEE.

There can be no more useful and ap-
propriate present than a subscription
to HORTICULTURE. The more he
reads HORTICULTURE the better
service he will render you. If you
want to give five or more we will be
glad to make a special discount, on
application.

Other Useful Books.

The Horticulturist's Rule-Book.
Bailey. Price, 75 cents.

Chrysanthemum Manual. Smith.
Price, 40 cents.

The Chrysanthemum. Herrington.
Price, 50 cents.

How to Make Money Growing
Violets. Saltford. Price, 25 cents.

Dwarf Fruit Trees. Waugh. Price,
50 cents.

The American Carnation. C. W.
Ward. Price, \$3.50.

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	Zirgiebel August.850

GREENHOUSES BUILDING OR CON-TEMPLATED.

New.

New Paris, O.—Neil Mitchell, one house.

New London, Ct.—Edward A. Smith, one house.

Linden, Mass.—C. S. Fielding, one house, 100 ft.

El Paso, Ill.—Wolk Florist Co., two houses, 12x100.

Tacoma, Wash.—Tacoma Cemetery Co., one house, 25x125.

Everett, Mass.—F. W. Osgood, one carnation house, 60 ft.

New Castle, Pa.—Henry Weinschenk, vegetable house, 125x160.

Swampscott, Mass.—E. G. Blaney, two houses, one 100 ft. long, one 50 ft.

Schoelcraft, Mich.—Cropson and Chauncey Simonds, two houses, each 23x100.

Additions.

Salem, O.—Wm. Mundy, two houses, 20x175.

Omaha, Nebr.—Peterson Bros., rose houses.

Adams, Mass.—A. J. Boothman, addition, 25x40.

N. Tewksbury, Mass.—Jesse Trull, one house 20x150.

Benton Harbor, Mich.—F. L. Tornquist, one house, 16x50.

Chicago, Ill.—George Wittbold Co., one house; Peter Reinberg, remodeling range of houses.

LIST OF PATENTS.

Issued June 18, 1907.

- 857,061. Straddle or Gang Plow. Rufus C. Henderson, Kankakee, Ill.
- 857,162. Cultivator. Frank E. Davis, La Crosse, Wis.
- 857,182. Hand Potato Digger. Frank R. Lancaster, So. Whitney, Ind.
- 857,195. Seed Distributer. Frank R. Packham, Springfield, Ohio, assignor to The American Seeding Machine Co., Springfield, Ohio.
- 857,319. Virgin Ground Plow. James H. Tripp, Vanceboro, N. C., assignor to Joseph B. Harvey, Vanceboro, N. C.
- 857,352. Cultivator. Henry E. Kline, Terre Haute, Ind., assignor of one-third to Henry Meyer, Terre Haute, Ind.
- 857,412. Sweep Rake. Frederick Nelson, Driscoll, N. D.
- 857,503. Riding Attachment for Plows. Edward Walbaum, Webster, S. D.

Among the signs of advancing civilization in Harput, Turkey, is a plan to establish a model farm where American methods and implements will be used and it is expected that a graduate from the Mass. Agricultural College at Amherst will be secured to take charge of the enterprise.

THEY'RE STICKING OUT

all over these pages.

WHAT?

Bargains in good stock.

The Kramer Bros. Fdy. Co. DAYTON, OHIO.



Largest Vase Manufacturers in the U. S.
Write to Department 3 for Catalog and
Prices if Interested.

CUT FLOWER MARKET REPORTS.

Continued from page 857.

June weddings and TWIN CITIES graduating exercises have kept the trade doing something until this past week but it appears that trade has now dropped flat. Stock is plentiful and can be bought at close prices. Roses are in abundance and a great many of them find their way to the dump-pile. Carnations are coming in smaller although as yet the retailers have not reduced their prices. Trade will be dull from now on.

All flowers have WASHINGTON taken a tumble in price and are coming in in quantities, particularly carnations. Roses seem to be a little more in favor than anything else, Richmond taking the lead. The hot weather is damaging the sweet pea crop to a marked degree. Everything is in need of rain. A good shower now would do untold good to both vegetables and flowers.

INCORPORATED.

Glen Bros., Rochester, N. Y.; E. S. Mayo, G. M. Rappert, R. A. Mayo; capital, \$650,000.

Albert F. Amling Co., Maywood, Ill.; A. F. Amling, Caroline Amling, Wm. Collatz; capital, \$50,000.

The Metz Floral Co. has started in business at Page Ave. and King's Highway, St. Louis.

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List? If Not, Why Not?**

Had you any trouble with the **MARCH WIND** coming through crack or crevice in the Greenhouse?

TWEMLOW'S

Old English



Glazing Putty

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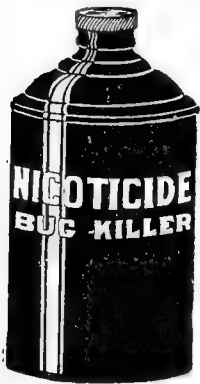
and ELASTIC

Will stop the trouble. Put up in 16 pound cans; 50 and 80 pound buckets.

Hammond's Greenhouse White,

A SUPERB PAINT, with twenty years' record to back it up, for wear and tear and looks on either wood or iron Greenhouses. It stays where you put it. In 5, 10, 15, 20, 25, or 30 Gallons.

HAMMOND'S PAINT AND SLUG SHOT WORKS, Fishkill-on-Hudson, New York.



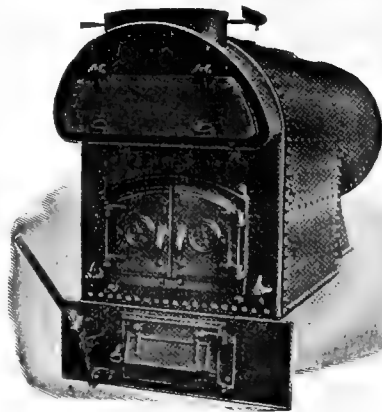
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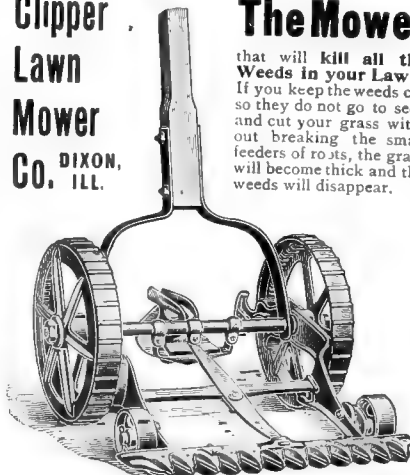
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Gentlemen:—The internally fired steel boilers which you installed last fall are giving us great satisfaction. They heat very quickly and are very economical. We are exceedingly well pleased with them and they have more than met our expectations.—Very truly yours,
F. R. PIERSON Co.

JOHNSTON HEATING CO.
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**Clipper
Lawn
Mower
Co. DIXON,
ILL.**

The Mower

that will kill all the Weeds in your Lawn. If you keep the weeds cut so they do not go to seed and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear.



The Clipper will do it. Ask your dealer for them. If they have not got them, below is the price: No. 1—12-inch Mower \$5; No. 2—15-inch Mower \$6; No. 3—18-inch Mower \$7; No. 4—21-inch Mower \$8. Send draft money-order or registered letter.

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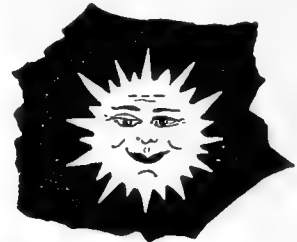
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Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Holker & Sons, Agts., 31 Barclay St., N. Y. City.

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COL. W. W. CASTLE, Boston, Mass.

Needham, Mass., June 24, 1907.

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Thanking you for the uniform courtesy, promptness and business methods you and your employes have always shown me, I remain,

Cordially yours,

(Signed) PAUL E. RICHWAGEN.

Watch this space next week. We shall present some more letters equally convincing as to the efficacy of heating apparatus installed by us

In the meantime write for particulars of our new

STEEL PLATE HOT WATER BOILER

built especially for greenhouse heating. Piping and fitting done according to most approved methods and satisfaction guaranteed. Perfect circulation in all kinds of weather absolutely assured by the use of our

ELECTRIC CIRCULATOR. ATTEND TO IT NOW.

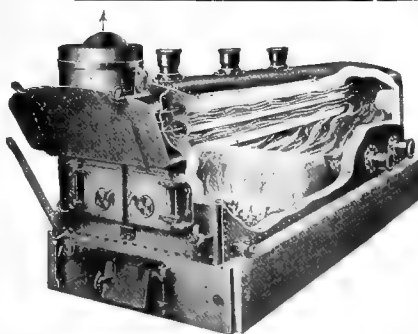
W. W. CASTLE, Heating Engineer, - 170 Summer Street, Boston, Mass.

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the only perfect Hot Water Boiler. Made in fifteen sizes; for smallest greenhouses up to 50,000 sq. ft. glass to 60° at 15° below zero.

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Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

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CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

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Write for Circular "D" and Prices

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NOW IS THE TIME TO INSURE
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BEWARE OF FIXED IDEAS

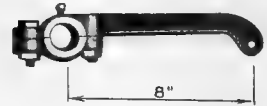
By that we mean, don't be the man who just because he has been moderately successful with the all-cypress house, feels that he has the whole greenhouse building matter down to a fine point. We would discard our entire Iron Frame Construction tomorrow if we were certain of something better. That's where we stand on improvements! Although improvements are constantly being made on our Iron Frame Construction, the main features have remained the same for years. It is not a fixed idea, however, but a proven fact that for growing records, lightness and freedom from repairs, it makes a house you can't beat. Write us.

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It's used at the ridge, and for side ventilation. It has the same machine cut worm and machine turned bearings. The shaft is round and the gear wheel double clamped to it and then set-screwed beside — there can be no slipping, and that's a mighty strong point.

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THE usual iron frame house looks full as well when benched up and stock well grown, but it's with an almost empty U-Bar house like this one, that you get the real value of the wonderful lightness and grace of U-Bar construction. That gutter free curved eave makes an unobstructed space from ridge to sill, for the 24 inch glass. The partitions are so light that without the doors they would scarcely be noticeable.

This particular house is left open in the centre for the taller plants in pots.

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